SERVICE MANUAL

FISHER

INTEGRATED DIGITAL AMPLIFIER WITH RCA-9060 WIRELESS REMOTE CONTROL

CA-9060

(EUROPE)

132 354 40

SPECIFICATIONS

RCA-9060
Wireless Remote Control ..... 48 Buttons

POWER AMPLIFIER SECTION
Minimum RMS sine wave power per channel within the stated bandwidth at no more than the stated distortion and with an 8-ohm load ..... DIN 100 Watts
Power Bandwidth ..... 40 Hz – 12.5 kHz
Total Harmonic Distortion ..... 0.02 %
I.M. Distortion ..... 0.02 %
Speaker Damping ..... > 30

DIGITAL INPUT SECTION
Optical Input ..... – 15 ~ – 21 dBm
Coaxial Input ..... 0.5 Vpp (75Ω)
Sampling Frequency ..... 32 kHz,44.1 kHz,48 kHz

PREAMPLIFIER SECTION
Frequency Response
Phono (RIAA) ..... ±1 dB
AUX (20 Hz – 20 kHz) ..... ±0.5 dB

Input Sensitivity and Impedance
Phono ..... 2.5 mV/50 kΩ
Tape Monitor 1,2,3 ..... 150 mV/50 kΩ
Tuner/AUX/CD ..... 150 mV/50 kΩ
Phono Maximum Input Capability ..... 160 mV
Tone Control
(100 Hz,1 kHz,10 kHz) ..... ±10 dB
Subsonic Filter (Below 20 Hz) ..... – 12 dB/Oct.
Loudness Contour (100 Hz/10 kHz) ..... + 8 dB/ + 4 dB
Hum and Noise (IHF Short Circuit, A Network)
Phono ..... 80 dB
Tape Monitor 1,2,3 ..... 90 dB
Tuner/AUX/CD ..... 90 dB

GENERAL
Power Requirements ..... AC 220 V
(50 Hz) 500 W
AC Outlets (Switched) 2
Dimensions (WxHxD) ..... 440 x 146 x 340 mm
Weight (Approximate) ..... 12.0 kg

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570347

POWER AMPLIFIER ADJUSTMENT

BEFORE ADJUSTMENT

Unplug the AC power cord and set the front panel controls as follows:

- Power switch to OFF position.
- Set the SPEAKERS switch to the OFF position.
- Turn the MASTER VOLUME Control to minimum.
- IDLING CURRENT ADJUSTMENT VR301/VR302 (on the Main P.C.Board) setting to mechanical center position.
- Connect the AC power cord and Power switch to the ON position.

IDLING CURRENT ADJUSTMENT

This adjustment is very sensitive to changes in ambient temperature. Allow set to operate for 2 minutes before attempting this alignment.

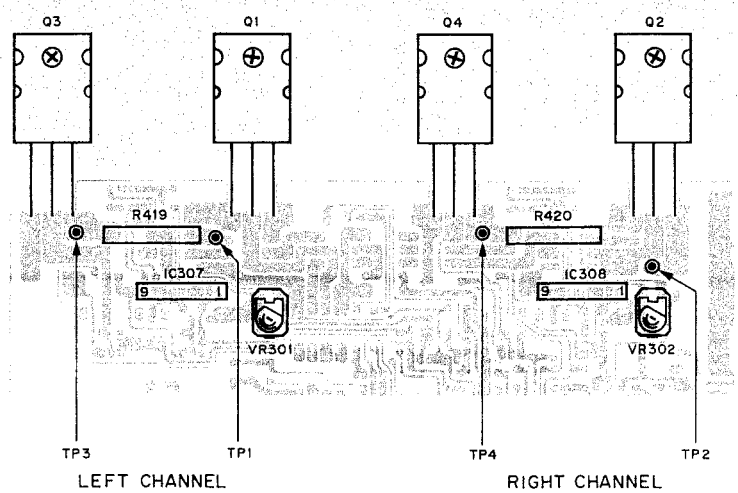
LEFT CHANNEL AMPLIFIER

1. Connect the DC Voltmeter between Test Point TP1 and TP3 on the Main P.C.Board.
2. Adjust the VR301 for an indication of 15mV ±5mV on the DC Voltmeter.

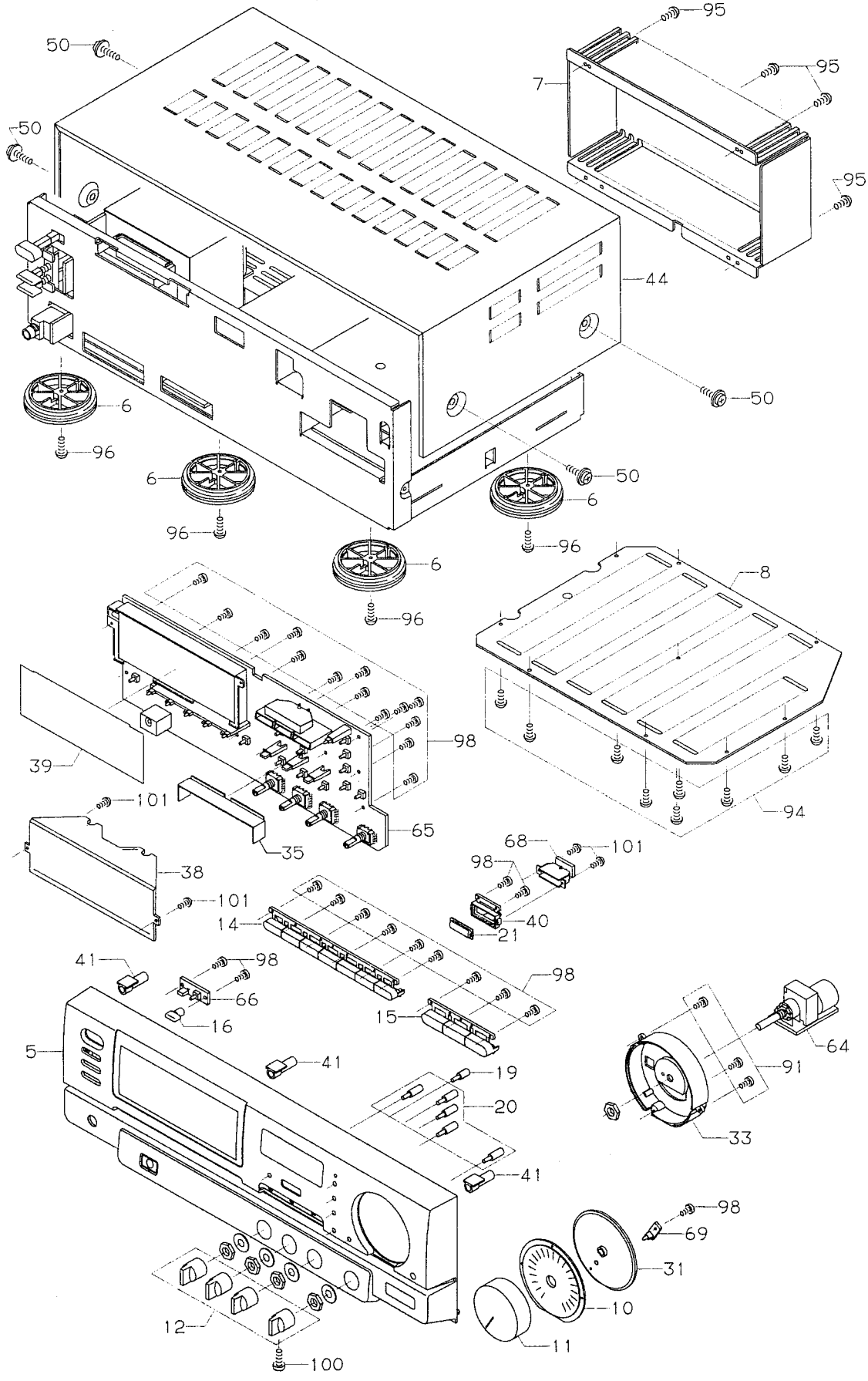
RIGHT CHANNEL AMPLIFIER

1. Connect the DC Voltmeter between Test Point TP2 and TP4 on the Main P.C.Board.
2. Adjust the VR302 for an indication of 15mV ±5mV on the DC Voltmeter.

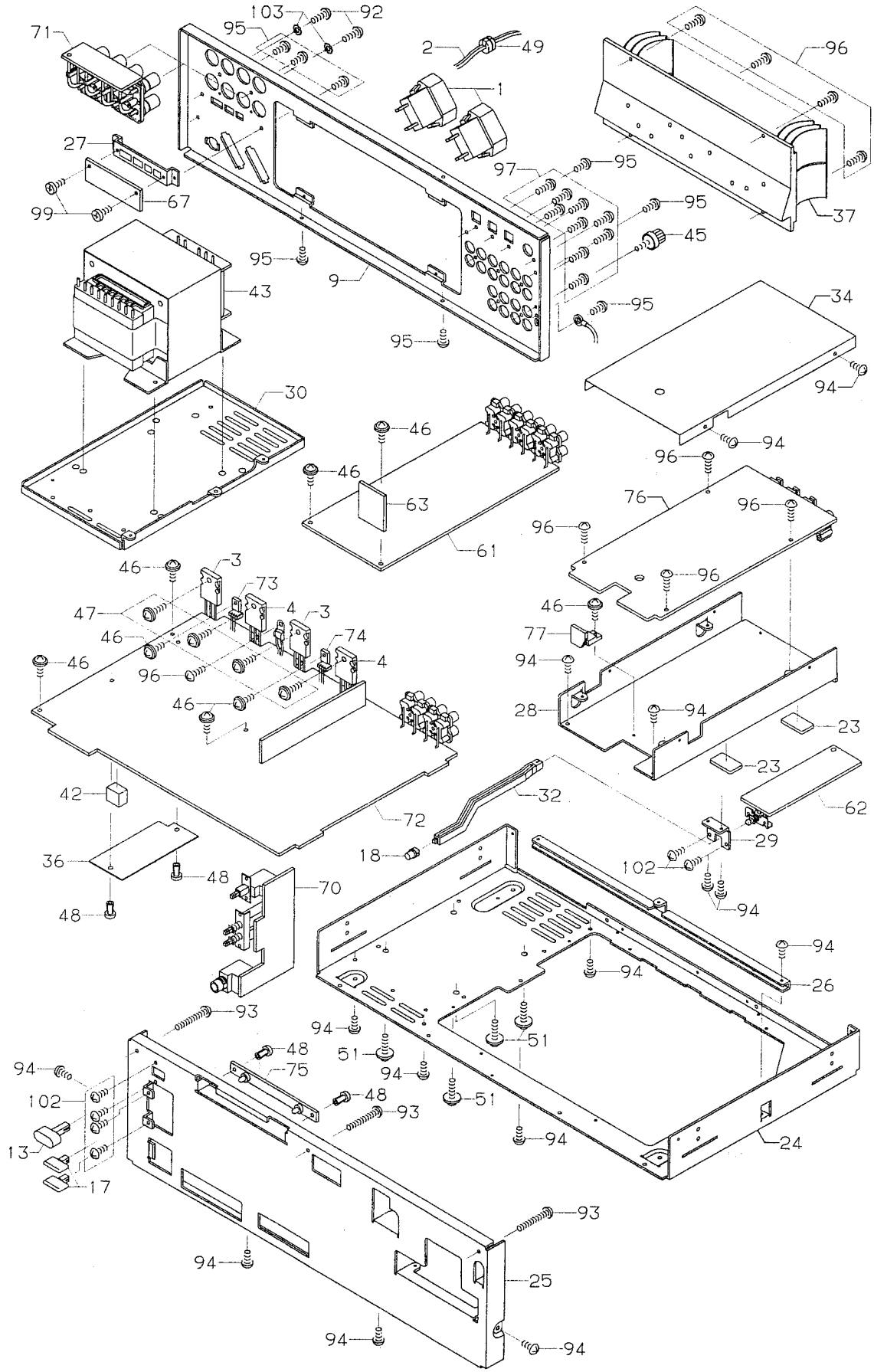
ADJUSTMENT POINTS



CABINET & CHASSIS EXPLODED VIEW (1)



CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

Ref. No.		Part No.	Description	Q'ty
PACKAGE				
		620 202 5810	Outer Carton	1
		620 204 7997	Pad,Left	1
		620 204 8000	Pad,Right	1
		620 059 6596	Patching Sheet	1
		620 148 8012	Sheet Polyethylene	1
		620 152 7452	Serial No. Sheet	2
ACCESSORIES				
		620 204 4323	Assy,Poly Cover	1
		620 021 2373	Plug 1P	2
		620 204 4644	Remocon,RCA-9060	1
		620 204 4224	Instruction Manual	1
		620 057 8783	Bag Fan	1
		620 062 0543	Serial No. Sheet	1
		620 152 2624	Certificate Card	1
CABINET				
		620 022 3492	Terminal Lug	1
		620 125 8424	Wire Band	23
		620 152 7452	Serial No. Sheet	1
1	⚠	620 017 1212	AC Socket	2
2	⚠	620 023 7550	Power Cord	1
3		405 003 4008	TR 2SA1302-O [Q3]	1
or		405 031 2205	TR 2SA1302-R	1
3		405 003 4008	TR 2SA1302-O [Q4]	1
or		405 031 2205	TR 2SA1302-R	1
4		405 017 7804	TR 2SC3281-O [Q1]	1
or		405 017 7903	TR 2SC3281-R	1
4		405 017 7804	TR 2SC3281-O [Q2]	1
or		405 017 7903	TR 2SC3281-R	1
5		620 202 5865	Assy,Cabinet	1
6		620 198 6969	Assy,Foot	4
7		620 202 5797	Cover,Heat Sink	1
8		620 199 6470	Plate,Bottom	1
9		620 202 5421	Panel,Rear	1
10		620 198 0813	Dial Scale	1
11		620 198 0769	Knob,Rotary,Volume	1
12		620 198 0776	Knob,Rotary,Equalizer	4
13		620 198 6938	Knob,Power	1
14		620 199 3868	Knob,Function	1
15		620 199 3875	Knob,Touch	1
16		620 198 0745	Button,Stand BY	1
17		620 198 0752	Button,Push (Speakers Select)	2
18		620 198 4866	Button,Push	1
19		620 198 4897	Button,Tact (Mode)	1
20		620 199 3882	Button,Tact	4
21		620 199 4018	Button,Clear	1
23		620 199 5275	Foot,Felt	2
24		620 199 6463	Chassis	1
25		620 202 5407	Chassis,Front	1
26		620 199 6494	Bracket-E,PCB	1
27		620 199 6630	Bracket-E	1
28		620 202 5308	Bracket-E,Digital P.C.B.	1
29		620 204 8710	Bracket-E,Switch	1
30		620 199 6487	Bracket-M	1
31		620 198 0837	Mount-E,Indicator	1
32		620 204 8543	Joint	1
33		620 198 0844	Support,Shaft	1
34		620 202 5360	Shield,Cover,Digital	1
35		620 208 4619	Shield,Cover	1
36		620 204 7492	Insulator,Plate	1
37		620 202 5339	Heat Sink	1
38		620 202 5803	Filter,Clear	1
39		620 199 6449	Filter,FL	1
40		620 199 4063	Reflector	1
41		620 198 0912	Spacer,Cabinet	3
42		620 208 4626	Cushion,Rubber	1
43	⚠	620 201 8591	Power Trans,SEV,200VA	1
44		620 045 4711	Cover	1
45		620 051 2152	Screw Ground	1
46		620 051 3708	Screw Braz. HD. +M3X8	8
47		620 051 3746	Screw 3X10	4
48		620 191 2746	Rivet 3.5	4
49		620 053 2136	Bushing (AC Cord)	1
50		620 123 0284	SCR TPG BIN +M4.0X8	4
51		620 123 0833	SCR Bind TAP-B +M4X10	4

Ref. No.	Part No.	Description	Q'ty
61	620 202 7487	Assy,PCB,Input	1
62	620 202 7494	Assy,PCB,Phono EQ.	1
63	620 202 7500	Assy,PCB,Flat Amplifier	1
64	620 202 7517	Assy,PCB,Volume	1
65	620 202 7524	Assy,PCB,Control	1
66	620 202 7531	Assy,PCB,Standby Switch	1
67	620 202 7555	Assy,PCB,Remocon	1
68	620 202 7562	Assy,PCB,DIG Lamp	1
69	620 202 7579	Assy,PCB,Volume Indicator	1
70	620 202 7586	Assy,PCB,Speaker Switch	1
71	620 202 7593	Assy,PCB,Speaker Terminal	1
72	620 202 7609	Assy,PCB,Main	1
73	620 202 7616	Assy,PCB,Bias,Left	1
74	620 202 7623	Assy,PCB,Bias,Right	1
75	620 202 7630	Assy,PCB,Lamp	1
76	620 202 7654	Assy,PCB-W,DAC	1
77	620 202 7678	Assy,PCB-W,5V	1
91	411 020 5706	SCR S-TPG BRZ 2.6X8	3
92	411 099 9506	SCR S-TPG BRZ 3X10	2
93	411 020 7304	SCR S-TPG BRZ 3X30	3
94	411 020 7700	SCR S-TPG BRZ 3X6	24
95	411 099 9704	SCR S-TPG BRZ 3X6	12
96	411 020 8004	SCR S-TPG BRZ 3X8	13
97	411 099 9803	SCR S-TPG BRZ 3X8	6
98	411 021 0809	SCR S-TPG BIN 2X6	29
99	411 021 2704	SCR S-TPG BIN 2.6X6	2
100	411 021 6603	SCR S-TPG BIN 3X8	1
101	411 022 7708	SCR S-TPG PAN 2X5	4
102	411 002 8503	SCR PAN 3X6	6
103	411 085 2405	WASHER Out TW 3	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,INPUT			
61	620 202 7487	Assy,PCB,Input	1
	620 201 6153	Jack,RCA PIN,4P,WH/RE	3
	620 202 8064	Connector-P,9115B-07,7P	1
CN101	620 202 8293	Socket,52151-1010,10P	1
CN103	620 202 8286	Socket,52151-0710,7P	1
CN104	620 202 8279	Socket,52151-0610,6P	1
CN110	620 202 7708	Socket,52147-0710,7P	1
CN111	620 201 6467	Socket,Jumper,5P	1
CN112	620 202 7708	Socket,52147-0710,7P	1
CN114	620 202 8262	Socket,52151-0510,5P	1
CN117	620 021 5923	Plug 3P	1
CN118	620 021 8320	Plug 5P	1
L101	620 207 2838	Inductor 47UH K	1
L102	620 207 2838	Inductor 47UH K	1
L103	620 207 2838	Inductor 47UH K	1
L104	620 207 2838	Inductor 47UH K	1
W101	620 019 7410	Connector 1P Assy	1
IC102	409 109 5105	IC LC7821	1
IC103	409 166 5308	IC TC9215P	1
IC104	409 166 5308	IC TC9215P	1
IC105	409 161 3101	IC TC9214P	1
IC106	409 161 3101	IC TC9214P	1
IC107	409 018 4503	IC LA6458DS	1
IC108	409 018 4503	IC LA6458DS	1
IC110	409 166 5308	IC TC9215P	1
IC111	409 200 1402	IC MC74HC04AN	1
Q101	405 010 9201	TR 2SC1570-G-NP	1
or	405 010 9102	TR 2SC1570-F-NP	1
Q102	405 010 9201	TR 2SC1570-G-NP	1
or	405 010 9102	TR 2SC1570-F-NP	1
D101	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D102	407 005 3805	DIODE DS442-BT	1
D103	407 125 8209	DIODE HSS271	1
C123	403 068 9402	CERAMIC 100P K 50V	1
C124	403 068 9402	CERAMIC 100P K 50V	1
C125	403 068 9402	CERAMIC 100P K 50V	1
C126	403 068 9402	CERAMIC 100P K 50V	1
C127	403 068 9402	CERAMIC 100P K 50V	1
C128	403 068 9402	CERAMIC 100P K 50V	1
C129	403 068 9402	CERAMIC 100P K 50V	1
C130	403 068 9402	CERAMIC 100P K 50V	1
C131	403 068 9402	CERAMIC 100P K 50V	1
C132	403 068 9402	CERAMIC 100P K 50V	1
C133	403 047 1502	ELECT 4.7U M 25V	1
C134	403 047 1502	ELECT 4.7U M 25V	1
C135	403 049 1609	ELECT 1U M 50V	1
C137	403 047 1502	ELECT 4.7U M 25V	1
C138	403 047 1502	ELECT 4.7U M 25V	1
C139	403 068 9402	CERAMIC 100P K 50V	1
C140	403 068 9402	CERAMIC 100P K 50V	1
C141	403 047 1502	ELECT 4.7U M 25V	1
C142	403 047 1502	ELECT 4.7U M 25V	1
C143	403 071 6207	CERAMIC 220P K 50V	1
C144	403 071 6207	CERAMIC 220P K 50V	1
C145	403 067 6709	MT-COMPO 0.22U J 50V	1
C146	403 067 6709	MT-COMPO 0.22U J 50V	1
C147	403 067 6709	MT-COMPO 0.22U J 50V	1
C148	403 067 6709	MT-COMPO 0.22U J 50V	1
C149	403 047 1502	ELECT 4.7U M 25V	1
C150	403 047 1502	ELECT 4.7U M 25V	1
C151	403 068 9402	CERAMIC 100P K 50V	1
C152	403 068 9402	CERAMIC 100P K 50V	1
C153	403 068 9402	CERAMIC 100P K 50V	1
C154	403 068 9402	CERAMIC 100P K 50V	1
C155	403 047 1502	ELECT 4.7U M 25V	1
C156	403 047 1502	ELECT 4.7U M 25V	1
C157	403 049 1609	ELECT 1U M 50V	1
C158	403 049 1609	ELECT 1U M 50V	1
C159	403 058 3106	POLYESTER 0.015U J 50V	1
C160	403 058 3106	POLYESTER 0.015U J 50V	1
C161	403 045 0606	ELECT 100U M 25V	1
C162	403 045 0606	ELECT 100U M 25V	1
C163	403 071 6207	CERAMIC 220P K 50V	1
C164	403 071 6207	CERAMIC 220P K 50V	1
C165	403 069 8404	CERAMIC 0.01U Z 50V	1
C166	403 069 8404	CERAMIC 0.01U Z 50V	1
C167	403 069 8404	CERAMIC 0.01U Z 50V	1
C168	403 143 2809	CERAMIC 0.047U Z 50V	1
C169	403 043 1001	ELECT 220U M 16V	1
C171	403 073 7004	CERAMIC 470P K 50V	1
C172	403 073 7004	CERAMIC 470P K 50V	1
R119	401 024 7707	CARBON 100K JA 1/6W	1
R120	401 024 7707	CARBON 100K JA 1/6W	1
R121	401 025 7805	CARBON 2.2K JA 1/6W	1
R122	401 025 7805	CARBON 2.2K JA 1/6W	1
R123	401 027 0507	CARBON 470K JA 1/6W	1
R124	401 027 0507	CARBON 470K JA 1/6W	1
R125	401 027 0507	CARBON 470K JA 1/6W	1
R126	401 027 0507	CARBON 470K JA 1/6W	1
R127	401 027 0507	CARBON 470K JA 1/6W	1
R128	401 027 0507	CARBON 470K JA 1/6W	1
R129	401 027 0507	CARBON 470K JA 1/6W	1
R130	401 027 0507	CARBON 470K JA 1/6W	1
R131	401 025 2305	CARBON 150K JA 1/6W	1
R132	401 025 2305	CARBON 150K JA 1/6W	1
R133	401 012 5708	CARBON 1K JA 1/4W	1
R134	401 024 7004	CARBON 1K JA 1/6W	1
R135	401 012 5708	CARBON 1K JA 1/4W	1
R136	401 024 7004	CARBON 1K JA 1/6W	1
R137	401 012 5708	CARBON 1K JA 1/4W	1
R138	401 024 7004	CARBON 1K JA 1/6W	1
R139	401 012 5708	CARBON 1K JA 1/4W	1
R140	401 024 7004	CARBON 1K JA 1/6W	1
R141	401 012 5708	CARBON 1K JA 1/4W	1
R142	401 024 7004	CARBON 1K JA 1/6W	1
R143	401 016 2604	CARBON 220 JA 1/4W	1
R144	401 016 2604	CARBON 220 JA 1/4W	1
R145	401 014 4105	CARBON 1.5K JA 1/4W	1
R147	401 016 3809	CARBON 2.2K JA 1/4W	1
R149	401 024 7400	CARBON 10K JA 1/6W	1
R151	401 027 0507	CARBON 470K JA 1/6W	1
R152	401 027 0507	CARBON 470K JA 1/6W	1
R153	401 027 0507	CARBON 470K JA 1/6W	1
R154	401 027 0507	CARBON 470K JA 1/6W	1
R155	401 024 7707	CARBON 100K JA 1/6W	1
R156	401 024 7707	CARBON 100K JA 1/6W	1
R157	401 026 9600	CARBON 470 JA 1/6W	1
R158	401 026 9600	CARBON 470 JA 1/6W	1
R159	401 025 0004	CARBON 120K JA 1/6W	1
R160	401 025 0004	CARBON 120K JA 1/6W	1
R161	401 024 7707	CARBON 100K JA 1/6W	1
R162	401 024 7707	CARBON 100K JA 1/6W	1
R163	401 026 1307	CARBON 27K JA 1/6W	1
R164	401 026 1307	CARBON 27K JA 1/6W	1
R165	401 026 9907	CARBON 4.7K JA 1/6W	1
R166	401 026 9907	CARBON 4.7K JA 1/6W	1
R167	401 026 9907	CARBON 4.7K JA 1/6W	1
R168	401 026 9907	CARBON 4.7K JA 1/6W	1
R169	401 027 0507	CARBON 470K JA 1/6W	1
R170	401 027 0507	CARBON 470K JA 1/6W	1
R171	401 025 2305	CARBON 150K JA 1/6W	1
R172	401 025 2305	CARBON 150K JA 1/6W	1
R173	401 026 4308	CARBON 3.3K JA 1/6W	1
R174	401 026 4308	CARBON 3.3K JA 1/6W	1
R175	401 026 6609	CARBON 390 JA 1/6W	1
R176	401 026 6609	CARBON 390 JA 1/6W	1
R177	401 027 2600	CARBON 5.6K JA 1/6W	1
R178	401 027 2600	CARBON 5.6K JA 1/6W	1
R179	401 018 1605	CARBON 33 JA 1/4W	1
R180	401 018 1605	CARBON 33 JA 1/4W	1
R181	401 026 4308	CARBON 3.3K JA 1/6W	1
R182	401 026 4308	CARBON 3.3K JA 1/6W	1
R183	401 026 4308	CARBON 3.3K JA 1/6W	1
R184	401 024 7400	CARBON 10K JA 1/6W	1
R185	401 024 7400	CARBON 10K JA 1/6W	1
ASSY,PCB,PHONO EQ.			
62	620 202 7494	Assy,PCB,Phono EQ.	1
CA117	620 205 8337	Assy,Wire,XH-SUN,3P	1
CA118	620 197 5239	Assy,Wire,KR-DA 5P	1
SW701	620 205 8344	Switch,Push,2P-2S,S (MM/MC)	1
IC701	409 057 4403	IC UPC4570C	1
Q701	405 034 3803	TR 2SK170-V	1
or	405 026 6003	TR 2SK170-BL	1
Q702	405 034 3803	TR 2SK170-V	1
or	405 026 6003	TR 2SK170-BL	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
Q703	405 034 3803	TR 2SK170-V				1
or	405 026 6003	TR 2SK170-BL				1
Q704	405 034 3803	TR 2SK170-V				1
or	405 026 6003	TR 2SK170-BL				1
C701	403 071 6207	CERAMIC	220P	K	50V	1
C702	403 071 6207	CERAMIC	220P	K	50V	1
C703	403 068 9402	CERAMIC	100P	K	50V	1
C704	403 068 9402	CERAMIC	100P	K	50V	1
C705	403 069 1207	CERAMIC	1000P	K	50V	1
C706	403 069 1207	CERAMIC	1000P	K	50V	1
C707	403 038 2402	ELECT	100U	M	6.3V	1
C708	403 038 2402	ELECT	100U	M	6.3V	1
C709	403 062 6605	POLYESTER	0.056U	J	50V	1
C710	403 062 6605	POLYESTER	0.056U	J	50V	1
C711	403 058 3106	POLYESTER	0.015U	J	50V	1
C712	403 058 3106	POLYESTER	0.015U	J	50V	1
C713	403 050 3708	ELECT	22U	M	50V	1
C714	403 050 3708	ELECT	22U	M	50V	1
C715	403 047 4305	ELECT	47U	M	25V	1
C716	403 047 4305	ELECT	47U	M	25V	1
R703	401 024 6700	CARBON	100	JA	1/6W	1
R704	401 012 4503	CARBON	100	JA	1/4W	1
R705	401 027 0309	CARBON	47K	JA	1/6W	1
R706	401 027 0309	CARBON	47K	JA	1/6W	1
R707	401 012 3407	CARBON	10	JA	1/4W	1
R708	401 012 3407	CARBON	10	JA	1/4W	1
R709	401 027 8305	CARBON	820	JA	1/6W	1
R710	401 027 8305	CARBON	820	JA	1/6W	1
R711	401 027 8305	CARBON	820	JA	1/6W	1
R712	401 027 8305	CARBON	820	JA	1/6W	1
R713	401 024 6700	CARBON	100	JA	1/6W	1
R714	401 024 6700	CARBON	100	JA	1/6W	1
R715	401 025 4200	CARBON	1.8K	JA	1/6W	1
R716	401 015 2704	CARBON	1.8K	JA	1/4W	1
R717	401 024 6403	CARBON	10	JA	1/6W	1
R718	401 012 3407	CARBON	10	JA	1/4W	1
R719	401 024 6700	CARBON	100	JA	1/6W	1
R720	401 024 6700	CARBON	100	JA	1/6W	1
R721	401 022 5101	CARBON	680K	JA	1/4W	1
R722	401 027 6103	CARBON	680K	JA	1/6W	1
R723	401 027 3003	CARBON	56K	JA	1/6W	1
R724	401 027 3003	CARBON	56K	JA	1/6W	1
R725	401 026 9907	CARBON	4.7K	JA	1/6W	1
R726	401 026 9907	CARBON	4.7K	JA	1/6W	1
R727	401 016 2604	CARBON	220	JA	1/4W	1
R728	401 016 2604	CARBON	220	JA	1/4W	1
ASSY,PCB,FLAT AMPLIFIER						
63	620 202 7500	Assy,PCB,Flat Amplifier				1
CA119	620 202 8088	Connector-S,9115S-07L,7P				1
IC109	409 018 4503	IC LA6458DS				1
C181	403 047 1502	ELECT	4.7U	M	25V	1
C182	403 047 1502	ELECT	4.7U	M	25V	1
C183	403 068 9402	CERAMIC	100P	K	50V	1
C184	403 068 9402	CERAMIC	100P	K	50V	1
C185	403 047 1502	ELECT	4.7U	M	25V	1
C186	403 047 1502	ELECT	4.7U	M	25V	1
R191	401 024 7707	CARBON	100K	JA	1/6W	1
R192	401 024 7707	CARBON	100K	JA	1/6W	1
R193	401 024 7707	CARBON	100K	JA	1/6W	1
R194	401 024 7707	CARBON	100K	JA	1/6W	1
ASSY,PCB,VOLUME						
64	620 202 7517	Assy,PCB,Volume				1
VR101	620 199 4520	VR,Rotary,2X100KA,Motor				1
CN105	620 202 8286	Socket,52151-0710,7P				1
ASSY,PCB,CONTROL						
65	620 202 7524	Assy,PCB,Control				1
	620 182 6630	Digitron BG-581GK				1
	620 030 8083	Lamp				1
	411 022 7807	SCR S-TPG PAN 2X6				9
	620 199 0027	Mount-E,FL				1
	620 199 4049	Reflector,Lamp				1
	620 199 4056	Reflector,LED				1
	620 199 0102	Spacer,LED,B				1
	620 199 3998	Spacer,LED,Function				1
	620 199 4001	Spacer,LED,Digital				3
	620 125 8424	Wire Band				1

Ref. No.	Part No.	Description	Q'ty
CN108	620 202 8316	Connector-S,TKC-B07X-E1	1
CN109	620 202 8316	Connector-S,TKC-B07X-E1	1
PC110	620 206 9067	Wire, 7-130,P=2	1
PC111	620 206 9081	Wire, 5-240,P=2	1
PC112	620 206 9098	Wire, 7-240,P=2	1
PC113	620 206 9142	Assy,Wire,PH-SH, 7-150	1
PC116	620 206 9104	Wire, 3- 70,P=2	1
PC118	620 206 9111	Wire, 7-420,P=2	1
RB201	620 004 5186	Resistor 9X10K J	1
RB202	620 004 5513	Resistor 7X10K	1
SH110	620 202 9108	Socket,Holder,7P	1
SH111	620 202 9153	Socket,Holder,12P	1
SH113	620 202 9108	Socket,Holder,7P	1
SH116	620 202 9061	Socket,Holder,3P	1
SH118	620 202 9108	Socket,Holder,7P	1
SH119	620 202 9054	Socket,Holder,2P	1
SW201	620 016 7796	Tact Switch	1
SW202	620 016 7796	Tact Switch	1
SW203	620 016 7796	Tact Switch	1
SW204	620 016 7796	Tact Switch	1
SW205	620 016 7796	Tact Switch	1
SW206	620 016 7796	Tact Switch	1
SW207	620 016 7796	Tact Switch	1
SW208	620 016 7796	Tact Switch	1
SW209	620 016 7796	Tact Switch	1
SW210	620 016 7796	Tact Switch	1
SW211	620 016 7796	Tact Switch	1
SW212	620 016 7796	Tact Switch	1
SW213	620 016 7796	Tact Switch	1
SW214	620 016 7796	Tact Switch	1
SW215	620 016 7796	Tact Switch	1
SW216	620 016 7796	Tact Switch	1
SW217	620 016 7796	Tact Switch	1
VR201	620 196 2352	VR,Rotary 2X250KSW	1
VR202	620 196 2352	VR,Rotary 2X250KSW	1
VR203	620 196 2352	VR,Rotary 2X250KSW	1
VR204	620 199 4537	VR,Rotary,200KW	1
XT201	620 026 9070	CSA 4.19M Resonator	1
IC201	410 104 3706	IC TMP47P870N-CA-9060E	1
IC202	409 114 4803	IC LB1641	1
Q201	405 010 9102	TR 2SC1570-F-NP-AA	1
or	405 010 9201	TR 2SC1570-G-NP-AA	1
Q202	405 010 9102	TR 2SC1570-F-NP-AA	1
or	405 010 9201	TR 2SC1570-G-NP-AA	1
Q203	405 010 9102	TR 2SC1570-F-NP-AA	1
or	405 010 9201	TR 2SC1570-G-NP-AA	1
Q204	405 010 9102	TR 2SC1570-F-NP-AA	1
or	405 010 9201	TR 2SC1570-G-NP-AA	1
Q205	405 057 6409	TR 2SC4038-R-TL2	1
or	405 057 6300	TR 2SC4038-S-TL2	1
Q206	405 057 6409	TR 2SC4038-R-TL2	1
or	405 057 6300	TR 2SC4038-S-TL2	1
Q207	405 057 6409	TR 2SC4038-R-TL2	1
or	405 057 6300	TR 2SC4038-S-TL2	1
Q208	405 057 6409	TR 2SC4038-R-TL2	1
or	405 057 6300	TR 2SC4038-S-TL2	1
Q209	405 057 6409	TR 2SC4038-R-TL2	1
or	405 057 6300	TR 2SC4038-S-TL2	1
Q210	405 057 6409	TR 2SC4038-R-TL2	1
Q211	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q212	405 096 0901	TR DTC114-EL-TL2	1
or	405 034 8808	TR DTC114-EF	1
Q213	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q214	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q215	405 096 0901	TR DTC114-EL-TL2	1
or	405 034 8808	TR DTC114-EF	1
Q216	405 098 4105	TR DTA114-EL-TL2	1
or	405 034 6705	TR DTA114-EF	1
Q217	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q218	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q219	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q220	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
Q221	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q222	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q223	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q224	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q225	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q226	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q227	405 096 0901	TR DTC114-EL-TL2	1
or	405 034 8808	TR DTC114-EF	1
Q228	405 096 0901	TR DTC114-EL-TL2	1
or	405 034 8808	TR DTC114-EF	1
D201	407 005 3805	DIODE DS442-BT	1
D202	407 005 3805	DIODE DS442-BT	1
D203	407 008 0405	DIODE GMB01-BT	1
D204	407 005 3805	DIODE DS442-BT	1
D205	407 008 0405	DIODE GMB01-BT	1
D206	407 008 0405	DIODE GMB01-BT	1
D207	407 008 0405	DIODE GMB01-BT	1
D208	407 005 3805	DIODE DS442-BT	1
D209	407 005 3805	DIODE DS442-BT	1
D210	407 005 3805	DIODE DS442-BT	1
D211	407 008 0405	DIODE GMB01-BT	1
D212	407 008 0405	DIODE GMB01-BT	1
D213	407 008 0405	DIODE GMB01-BT	1
D214	407 069 1205	DIODE DS441	1
D215	407 008 0405	DIODE GMB01-BT	1
D216	407 008 0405	DIODE GMB01-BT	1
D217	407 005 3805	DIODE DS442-BT	1
D218	407 005 3805	DIODE DS442-BT	1
D219	407 005 3805	DIODE DS442-BT	1
D220	407 005 3805	DIODE DS442-BT	1
D221	407 005 3805	DIODE DS442-BT	1
D222	407 005 3805	DIODE DS442-BT	1
D223	407 008 0405	DIODE GMB01-BT	1
D226	407 096 1704	LED SLP-290B-51	1
D227	407 096 1704	LED SLP-290B-51	1
D228	407 096 1704	LED SLP-290B-51	1
D229	407 096 1704	LED SLP-290B-51	1
D230	407 065 5009	LED SLP-190B-51	1
D231	407 065 5009	LED SLP-190B-51	1
D232	407 028 9105	LED SLP-173B-50	1
D233	407 028 9105	LED SLP-173B-50	1
D234	407 028 9105	LED SLP-173B-50	1
D235	407 005 3805	DIODE DS442-BT	1
D236	407 062 7204	LED SEL2213C	1
D237	407 062 7204	LED SEL2213C	1
D238	407 062 7204	LED SEL2213C	1
D239	407 008 0405	DIODE GMB01-BT	1
D240	407 004 9709	DIODE DSK10C-BT	1
D241	407 051 6300	ZENER DIODE GZS4.3X-BT	1
D242	407 102 2800	SENSOR SBX1492-52	1
C201	403 044 8207	ELECT 10U M 25V	1
C202	403 044 8207	ELECT 10U M 25V	1
C203	403 063 8301	POLYESTER 0.082U K 50V	1
C204	403 063 8301	POLYESTER 0.082U K 50V	1
C205	403 059 5802	POLYESTER 0.022U J 50V	1
C206	403 059 5802	POLYESTER 0.022U J 50V	1
C207	403 061 8006	POLYESTER 4700P J 50V	1
C208	403 061 8006	POLYESTER 4700P J 50V	1
C209	403 057 7402	POLYESTER 0.012U J 50V	1
C210	403 057 7402	POLYESTER 0.012U J 50V	1
C211	403 044 8207	ELECT 10U M 25V	1
C212	403 044 8207	ELECT 10U M 25V	1
C221	403 001 1906	CERAMIC 0.01U M 16V	1
C222	404 039 4402	ELECT 100U M 10V	1
or	404 032 5802	ELECT 100U M 10V	1
C223	403 022 7703	CERAMIC 33P J 50V	1
C224	403 022 7703	CERAMIC 33P J 50V	1
C225	403 001 1906	CERAMIC 0.01U M 16V	1
C226	404 039 4303	ELECT 2200U M 10V	1
or	404 032 2207	ELECT 2200U M 10V	1
C227	403 038 2303	ELECT 100U M 6.3V	1
C228	403 049 1609	ELECT 1U M 50V	1
C229	403 042 0302	ELECT 10U M 16V	1

Ref. No.	Part No.	Description	Q'ty
C230	403 001 1906	CERAMIC 0.01U M 16V	1
C231	403 073 7004	CERAMIC 470P K 50V	1
C232	403 001 1906	CERAMIC 0.01U M 16V	1
C233	403 121 9509	CERAMIC 0.1U Z 50V	1
C234	403 045 0606	ELECT 100U M 25V	1
R201	401 026 6609	CARBON 390 JA 1/6W	1
R202	401 026 6609	CARBON 390 JA 1/6W	1
R203	401 026 6609	CARBON 390 JA 1/6W	1
R204	401 026 6609	CARBON 390 JA 1/6W	1
R205	401 027 2600	CARBON 5.6K JA 1/6W	1
R206	401 027 2600	CARBON 5.6K JA 1/6W	1
R207	401 027 2600	CARBON 5.6K JA 1/6W	1
R208	401 027 2600	CARBON 5.6K JA 1/6W	1
R209	401 027 8305	CARBON 820 JA 1/6W	1
R210	401 027 8305	CARBON 820 JA 1/6W	1
R211	401 025 1605	CARBON 1.5K JA 1/6W	1
R212	401 025 1605	CARBON 1.5K JA 1/6W	1
R213	401 025 2305	CARBON 150K JA 1/6W	1
R214	401 025 2305	CARBON 150K JA 1/6W	1
R215	401 026 7408	CARBON 39K JA 1/6W	1
R216	401 026 7408	CARBON 39K JA 1/6W	1
R217	401 024 9305	CARBON 1.2K JA 1/6W	1
R218	401 024 9305	CARBON 1.2K JA 1/6W	1
R221	401 023 3700	CARBON 82K JA 1/4W	1
R222	401 023 3700	CARBON 82K JA 1/4W	1
R223	401 023 3700	CARBON 82K JA 1/4W	1
R224	401 023 3700	CARBON 82K JA 1/4W	1
R225	401 023 3700	CARBON 82K JA 1/4W	1
R226	401 023 3700	CARBON 82K JA 1/4W	1
R228	401 026 3905	CARBON 330 JA 1/6W	1
R229	401 012 5708	CARBON 1K JA 1/4W	1
R230	401 012 5708	CARBON 1K JA 1/4W	1
R231	401 027 0309	CARBON 47K JA 1/6W	1
R232	401 025 1605	CARBON 1.5K JA 1/6W	1
R233	401 026 4308	CARBON 3.3K JA 1/6W	1
R234	401 026 9600	CARBON 470 JA 1/6W	1
R235	401 025 7805	CARBON 2.2K JA 1/6W	1
R236	401 025 0608	CARBON 1.3K JA 1/6W	1
R237	401 024 7707	CARBON 100K JA 1/6W	1
R238	401 024 7707	CARBON 100K JA 1/6W	1
R239	401 024 7707	CARBON 100K JA 1/6W	1
R240	401 027 0507	CARBON 470K JA 1/6W	1
R241	401 024 7400	CARBON 10K JA 1/6W	1
R242	401 024 7400	CARBON 10K JA 1/6W	1
R243	401 026 4308	CARBON 3.3K JA 1/6W	1
R244	401 024 7707	CARBON 100K JA 1/6W	1
R245	401 024 7707	CARBON 100K JA 1/6W	1
R246	401 024 7004	CARBON 1K JA 1/6W	1
R247	401 024 7004	CARBON 1K JA 1/6W	1
R248	401 024 7004	CARBON 1K JA 1/6W	1
R249	401 024 7004	CARBON 1K JA 1/6W	1
R250	401 024 7004	CARBON 1K JA 1/6W	1
R251	401 013 6407	CARBON 12K JA 1/4W	1
R252	401 012 8105	CARBON 100K JA 1/4W	1
R253	401 025 1605	CARBON 1.5K JA 1/6W	1
R254	401 026 9907	CARBON 4.7K JA 1/6W	1
R255	401 014 4105	CARBON 1.5K JA 1/4W	1
R256	401 024 7707	CARBON 100K JA 1/6W	1
R257	401 026 9600	CARBON 470 JA 1/6W	1
R258	401 026 9907	CARBON 4.7K JA 1/6W	1
R259	401 024 7400	CARBON 10K JA 1/6W	1
R260	401 024 7400	CARBON 10K JA 1/6W	1
R261	401 012 8105	CARBON 100K JA 1/4W	1
R262	401 012 8105	CARBON 100K JA 1/4W	1
R263	401 012 8105	CARBON 100K JA 1/4W	1
R265	401 020 0801	CARBON 470 JA 1/4W	1
R267	401 026 9600	CARBON 470 JA 1/6W	1
R268	401 024 6403	CARBON 10 JA 1/6W	1
R269	401 026 9600	CARBON 470 JA 1/6W	1
R270	401 020 2003	CARBON 4.7K JA 1/4W	1
R273	401 012 4503	CARBON 100 JA 1/4W	1
R274	401 012 4503	CARBON 100 JA 1/4W	1
R275	401 012 4503	CARBON 100 JA 1/4W	1
R276	401 012 4503	CARBON 100 JA 1/4W	1
R277	401 012 5708	CARBON 1K JA 1/4W	1
R278	401 012 5708	CARBON 1K JA 1/4W	1
R279	401 012 5708	CARBON 1K JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,STANDBY SWITCH			
66	620 202 7531	Assy,PCB,Standby Switch	1
S218	620 016 7796	Tact Switch	1
D251	407 028 8504	LED SLP-173B (STANDBY,)	1
ASSY,PCB,REMOCON			
67	620 202 7555	Assy,PCB,Remocon	1
	620 021 1970	Plug 2P	1
	620 021 5923	Plug 3P	1
	620 021 5930	Plug 4P	1
SH118	620 202 9108	Socket,Holder,7P	1
D253	407 008 0405	DIODE GMB01-BT	1
D254	407 008 0405	DIODE GMB01-BT	1
C235	403 069 1207	CERAMIC 1000P K 50V	1
C236	403 069 1207	CERAMIC 1000P K 50V	1
ASSY,PCB,DIG LAMP			
68	620 202 7562	Assy,PCB,DIG Lamp	1
	620 188 0861	Lamp (16V, 67mA)	1
	620 202 5278	Reflector,Lamp-A	1
ASSY,PCB,VOLUME INDICATOR			
69	620 202 7579	Assy,PCB,Volume Indicator	1
D256	407 065 5009	LED SLP-190B-51	1
ASSY,PCB,SPEAKER SWITCH			
70	620 202 7586	Assy,PCB,Speaker Switch	1
	620 185 1946	Jack 3P	1
	620 202 8033	Terminal,I-102NA,2P	1
PC107	620 206 8756	Wire,AWG22,105DEG,5-400	1
PC115	620 206 8749	Wire,AWG22,105DEG,6-340	1
SH107	620 200 2637	Socket,Holder,5P	1
SH115	620 205 5091	Socket,Holder,6P	1
SW601⚠	620 015 2341	Switch Push Power (POWER,)	1
SW602	620 207 8083	Switch,Push,2K-4P-2T	1
R601	401 069 2705	OXIDE-MT 680 JB 2W	1
R602	401 069 2705	OXIDE-MT 680 JB 2W	1
R603	401 017 0807	CARBON 270 JA 1/4W	1
R604	401 017 0807	CARBON 270 JA 1/4W	1
R605	401 017 0807	CARBON 270 JA 1/4W	1
R606	401 017 0807	CARBON 270 JA 1/4W	1
ASSY,PCB,SPEAKER TERMINAL			
71	620 202 7593	Assy,PCB,Speaker Terminal	1
	620 196 5353	Terminal	1
SH115	620 205 5091	Socket,Holder,6P	1
C603	403 074 6303	CERAMIC 560P K 50V	1
C604	403 074 6303	CERAMIC 560P K 50V	1
C605	403 074 6303	CERAMIC 560P K 50V	1
C606	403 074 6303	CERAMIC 560P K 50V	1
C607	403 001 5102	CERAMIC 2200P M 16V	1
C608	403 001 5102	CERAMIC 2200P M 16V	1
ASSY,PCB,MAIN			
72	620 202 7609	Assy,PCB,Main	1
	620 017 2721	Fuse Clip	16
	620 022 2587	EC Terminal 1P	2
⚠	620 191 2692	Power Trans	1
	411 020 7700	SCR S-TPG BRZ 3X6	10
	620 201 6153	Jack,RCA PIN,4P,WH/RE	2
	620 202 3458	Terminal,1P	4
	620 202 4196	Terminal,Wrapper,3P	3
	620 202 8033	Terminal,I-102NA,2P	2
	620 202 8040	Terminal,I-103NA,3P	1
	620 206 8237	Relay,Power,1P-1T,12V,TV5	1
	620 196 1645	Relay,T-Cross DC24V	1
	620 053 6899	Cover Safety	1
	620 053 9241	Plate Heat Sink	10
	620 186 7275	Plate Earth	1
CN108	620 202 8323	Connector-P,TKC-107P-G1	1
CN109	620 202 8323	Connector-P,TKC-107P-G1	1
C434 ⚠	620 006 6679	Capacitor 0.01MF400V	1
F301 ⚠	423 006 4702	FUSE 250V T2.5A	1
F302 ⚠	423 007 7702	FUSE 250V T6.3A	1
F303 ⚠	423 007 7702	FUSE 250V T6.3A	1
F304 ⚠	423 005 0507	FUSE 250V T1A	1
F305 ⚠	423 005 0507	FUSE 250V T1A	1
F306 ⚠	423 005 0507	FUSE 250V T1A	1
F307 ⚠	423 005 0507	FUSE 250V T1A	1

Ref. No.	Part No.	Description	Q'ty
F308 ⚠	423 005 0507	FUSE 250V T1A	1
LC301	620 206 5601	Filter,LC,AC Line	1
L301	620 027 1240	AF Coil	1
L302	620 027 1240	AF Coil	1
PC101	620 206 8329	Wire,10-100,P=2	1
PC103	620 206 8336	Wire, 7-100,P=2	1
PC104	620 206 8343	Wire, 6-100,P=2	1
PC105	620 206 8350	Wire, 7-180,P=2	1
PC106	620 206 8381	Wire, 3-170,P=2	1
R419	620 004 3892	Cement 2X0.33	1
R420	620 004 3892	Cement 2X0.33	1
SH101	620 202 9139	Socket,Holder,10P	1
SH103	620 202 9108	Socket,Holder,7P	1
SH104	620 202 9160	Socket,Holder,13P	1
SH106	620 202 9061	Socket,Holder,3P	1
TW107	620 204 9229	Terminal,Wrapper,5P,I-505	1
VR301	620 005 6212	Potentiometer 301	1
VR302	620 005 6212	Potentiometer 301	1
IC301	409 166 5308	IC TC9215P	1
IC302	409 018 4503	IC LA6458DS	1
IC305	409 018 5203	IC LA6462D	1
IC307	409 079 9509	IC LA2500	1
IC308	409 079 9509	IC LA2500	1
IC309	409 018 4503	IC LA6458DS	1
Q301	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1
Q302	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1
Q303	405 016 8802	TR 2SC3065-G	1
or	405 016 8703	TR 2SC3065-F	1
Q304	405 016 8802	TR 2SC3065-G	1
or	405 016 8703	TR 2SC3065-F	1
Q305	405 016 8901	TR 2SC3066-F	1
or	405 016 9007	TR 2SC3066-G	1
Q306	405 016 8901	TR 2SC3066-F	1
or	405 016 9007	TR 2SC3066-G	1
Q307	405 003 0109	TR 2SA1240-G	1
or	405 003 0000	TR 2SA1240-F	1
Q308	405 003 0109	TR 2SA1240-G	1
or	405 003 0000	TR 2SA1240-F	1
Q309	405 016 3203	TR 2SC2909-R	1
or	405 016 3302	TR 2SC2909-S	1
Q310	405 016 3203	TR 2SC2909-R	1
or	405 016 3302	TR 2SC2909-S	1
Q311	405 002 8809	TR 2SA1207-T	1
or	405 002 8700	TR 2SA1207-S	1
Q312	405 002 8809	TR 2SA1207-T	1
or	405 002 8700	TR 2SA1207-S	1
Q313	405 002 9202	TR 2SA1209-T	1
or	405 002 9103	TR 2SA1209-S	1
Q314	405 002 9202	TR 2SA1209-T	1
or	405 002 9103	TR 2SA1209-S	1
Q315	405 016 4002	TR 2SC2911-T	1
or	405 016 3906	TR 2SC2911-S	1
Q316	405 016 4002	TR 2SC2911-T	1
or	405 016 3906	TR 2SC2911-S	1
Q317	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q318	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q319	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q320	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q321	405 017 2601	TR 2SC3117-S	1
or	405 017 2502	TR 2SC3117-R	1
Q322	405 017 2601	TR 2SC3117-S	1
or	405 017 2502	TR 2SC3117-R	1
Q323	405 003 1601	TR 2SA1249-S	1
or	405 003 1502	TR 2SA1249-R	1
Q324	405 003 1601	TR 2SA1249-S	1
or	405 003 1502	TR 2SA1249-R	1
Q331	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q332	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q333	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q334	405 004 4601	TR 2SA608-F-SPA-AC	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q335	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q336	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q337	405 023 8505	TR 2SD438-F-MP	1
or	405 023 8307	TR 2SD438-E-MP	1
Q338	405 027 0505	TR 2SK246-GR (TPE2)	1
or	405 034 5104	TR 2SK246-BL	1
Q339	405 007 5308	TR 2SB560-F-MP	1
or	405 007 5100	TR 2SB560-E-MP	1
Q340	405 027 0505	TR 2SK246-GR (TPE2)	1
or	405 034 5104	TR 2SK246-BL	1
Q341	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
Q342	405 023 8505	TR 2SD438-F-MP	1
or	405 023 8307	TR 2SD438-E-MP	1
Q343	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q344	405 024 9907	TR 2SD734-F-AA	1
or	405 024 9709	TR 2SD734-E	1
Q345	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
Q346	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q347	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
D301	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D302	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D303	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D304	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D305	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D306	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D307	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D308	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D309	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D310	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D311	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D312	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D313	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D314	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D315	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D316	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D317	407 005 4703	DIODE DS446-BT	1
D318	407 005 4703	DIODE DS446-BT	1
D319	407 005 4703	DIODE DS446-BT	1
D320	407 005 4703	DIODE DS446-BT	1
D321	407 051 5709	ZENER DIODE GZS3.6Z-BT	1
D322	407 051 5709	ZENER DIODE GZS3.6Z-BT	1
D323	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D324	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D325	407 005 3805	DIODE DS442-BT	1
D326	407 005 3805	DIODE DS442-BT	1
D327	407 088 3105	DIODE DSC30TC-KD2	1
D328	407 088 3105	DIODE DSC30TC-KD2	1
D329	407 088 3105	DIODE DSC30TC-KD2	1
D330	407 088 3105	DIODE DSC30TC-KD2	1
D331	407 004 9709	DIODE DSK10C-BT	1
D332	407 004 9709	DIODE DSK10C-BT	1
D333	407 004 9709	DIODE DSK10C-BT	1
D334	407 004 9709	DIODE DSK10C-BT	1

Ref. No.	Part No.	Description	Q'ty
D335	407 004 9709	DIODE DSK10C-BT	1
D336	407 004 9709	DIODE DSK10C-BT	1
D337	407 004 9709	DIODE DSK10C-BT	1
D338	407 004 9709	DIODE DSK10C-BT	1
D339	407 049 7807	ZENER DIODE GZA18Y-BT	1
D340	407 049 7807	ZENER DIODE GZA18Y-BT	1
D341	407 049 7005	ZENER DIODE GZA15Y-BT	1
D342	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
D343	407 049 9801	ZENER DIODE GZA22Y	1
D344	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
D345	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
D346	407 049 6305	ZENER DIODE GZA12Y-BT	1
D347	407 004 9709	DIODE DSK10C-BT	1
D348	407 004 9709	DIODE DSK10C-BT	1
D349	407 004 9709	DIODE DSK10C-BT	1
D350	407 004 9709	DIODE DSK10C-BT	1
D351	407 004 9709	DIODE DSK10C-BT	1
D352	407 004 9709	DIODE DSK10C-BT	1
D499	407 005 3805	DIODE DS442-BT	1
TH301	407 109 6702	THERMISTOR 300D-5	1
TH302	407 109 6702	THERMISTOR 300D-5	1
TH303	407 065 0707	THERMISTOR ZPP221E501A	1
C301	403 068 9402	CERAMIC 100P K 50V	1
C302	403 068 9402	CERAMIC 100P K 50V	1
C303	403 068 9402	CERAMIC 100P K 50V	1
C304	403 068 9402	CERAMIC 100P K 50V	1
C305	403 068 9402	CERAMIC 100P K 50V	1
C306	403 068 9402	CERAMIC 100P K 50V	1
C307	403 047 1502	ELECT 4.7U M 25V	1
C308	403 047 1502	ELECT 4.7U M 25V	1
C309	403 068 9402	CERAMIC 100P K 50V	1
C310	403 068 9402	CERAMIC 100P K 50V	1
C311	403 047 1502	ELECT 4.7U M 25V	1
C312	403 047 1502	ELECT 4.7U M 25V	1
C313	403 068 9402	CERAMIC 100P K 50V	1
C314	403 068 9402	CERAMIC 100P K 50V	1
C331	403 047 1502	ELECT 4.7U M 25V	1
C332	403 047 1502	ELECT 4.7U M 25V	1
C333	403 071 6207	CERAMIC 220P K 50V	1
C334	403 071 6207	CERAMIC 220P K 50V	1
C335	403 062 0900	POLYESTER 0.047U K 50V	1
C336	403 062 0900	POLYESTER 0.047U K 50V	1
C337	403 049 1609	ELECT 1U M 50V	1
C338	403 049 1609	ELECT 1U M 50V	1
C339	403 044 8207	ELECT 10U M 25V	1
C340	403 044 8207	ELECT 10U M 25V	1
C341	403 047 1502	ELECT 4.7U M 25V	1
C342	403 047 1502	ELECT 4.7U M 25V	1
C343	403 068 9402	CERAMIC 100P K 50V	1
C344	403 068 9402	CERAMIC 100P K 50V	1
C345	403 068 9402	CERAMIC 100P K 50V	1
C346	403 068 9402	CERAMIC 100P K 50V	1
C347	403 047 1502	ELECT 4.7U M 25V	1
C348	403 047 1502	ELECT 4.7U M 25V	1
C349	403 047 1502	ELECT 4.7U M 25V	1
C350	403 047 1502	ELECT 4.7U M 25V	1
C351	403 056 7809	POLYESTER 1000P J 50V	1
C352	403 056 7809	POLYESTER 1000P J 50V	1
C353	403 068 9402	CERAMIC 100P K 50V	1
C354	403 068 9402	CERAMIC 100P K 50V	1
C355	403 068 9402	CERAMIC 100P K 50V	1
C356	403 068 9402	CERAMIC 100P K 50V	1
C357	403 071 6207	CERAMIC 220P K 50V	1
C358	403 071 6207	CERAMIC 220P K 50V	1
C359	403 039 7802	ELECT 100U M 10V	1
C360	403 039 7802	ELECT 100U M 10V	1
C361	403 036 3005	CERAMIC 5P C 500V	1
C362	403 036 3005	CERAMIC 5P C 500V	1
C363	403 035 4508	CERAMIC 2P C 500V	1
C364	403 035 4508	CERAMIC 2P C 500V	1
C371	403 035 4508	CERAMIC 2P C 500V	1
C372	403 035 4508	CERAMIC 2P C 500V	1
C373	403 056 7809	POLYESTER 1000P J 50V	1
C374	403 056 7809	POLYESTER 1000P J 50V	1
C375	403 034 9900	CERAMIC 100P K 500V	1
C376	403 034 9900	CERAMIC 100P K 500V	1
C377	403 034 9900	CERAMIC 100P K 500V	1
C378	403 034 9900	CERAMIC 100P K 500V	1
C379	403 049 1609	ELECT 1U M 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C380	403 049 1609	ELECT	1U	M	50V	1
C381	403 049 1609	ELECT	1U	M	50V	1
C382	403 049 1609	ELECT	1U	M	50V	1
C383	403 062 0900	POLYESTER	0.047U	K	50V	1
C384	403 062 0900	POLYESTER	0.047U	K	50V	1
C385	403 054 9706	ELECT	47U	M	100V	1
C386	403 054 9706	ELECT	47U	M	100V	1
C387	403 054 9706	ELECT	47U	M	100V	1
C388	403 054 9706	ELECT	47U	M	100V	1
C389	403 041 3304	ELECT	47U	M	10V	1
C390	403 041 3304	ELECT	47U	M	10V	1
C391	403 049 1609	ELECT	1U	M	50V	1
C392	403 049 1609	ELECT	1U	M	50V	1
C393	403 042 0302	ELECT	10U	M	16V	1
C394	403 042 0302	ELECT	10U	M	16V	1
C395	403 042 0302	ELECT	10U	M	16V	1
C396	403 047 9607	ELECT	0.1U	M	50V	1
C397	403 041 3304	ELECT	47U	M	10V	1
C402	404 012 7000	CERAMIC	0.01U	P	500V	1
C403	404 012 7000	CERAMIC	0.01U	P	500V	1
C404	404 041 0201	ELECT	6800U	M	63V	1
C405	404 041 0201	ELECT	6800U	M	63V	1
C406	403 069 8404	CERAMIC	0.01U	Z	50V	1
C407	403 069 8404	CERAMIC	0.01U	Z	50V	1
C408	403 052 9609	ELECT	1000U	M	35V	1
C409	403 052 9609	ELECT	1000U	M	35V	1
C410	403 044 8207	ELECT	10U	M	25V	1
C411	403 044 8207	ELECT	10U	M	25V	1
C412	403 044 8207	ELECT	10U	M	25V	1
C413	403 044 8207	ELECT	10U	M	25V	1
C414	403 042 0302	ELECT	10U	M	16V	1
C415	403 042 3501	ELECT	100U	M	16V	1
C416	403 042 0302	ELECT	10U	M	16V	1
C417	403 039 7802	ELECT	100U	M	10V	1
C418	403 044 8207	ELECT	10U	M	25V	1
C419	403 044 8207	ELECT	10U	M	25V	1
C420	403 069 8404	CERAMIC	0.01U	Z	50V	1
C421	403 046 0605	ELECT	2200U	M	25V	1
C422	403 042 0302	ELECT	10U	M	16V	1
C423	403 042 0302	ELECT	10U	M	16V	1
C424	403 042 0302	ELECT	10U	M	16V	1
C425	403 042 0302	ELECT	10U	M	16V	1
C426	403 054 2608	ELECT	470U	M	35V	1
C427	403 069 8404	CERAMIC	0.01U	Z	50V	1
C428	403 038 2303	ELECT	100U	M	6.3V	1
C429	403 069 8404	CERAMIC	0.01U	Z	50V	1
C430	403 069 8404	CERAMIC	0.01U	Z	50V	1
C432	403 069 8404	CERAMIC	0.01U	Z	50V	1
C433	403 049 1609	ELECT	1U	M	50V	1
R301	401 024 7004	CARBON	1K	JA	1/6W	1
R302	401 024 7004	CARBON	1K	JA	1/6W	1
R303	401 025 0004	CARBON	120K	JA	1/6W	1
R304	401 025 0004	CARBON	120K	JA	1/6W	1
R305	401 024 7004	CARBON	1K	JA	1/6W	1
R306	401 012 5708	CARBON	1K	JA	1/4W	1
R307	401 027 0507	CARBON	470K	JA	1/6W	1
R308	401 027 0507	CARBON	470K	JA	1/6W	1
R309	401 012 5708	CARBON	1K	JA	1/4W	1
R310	401 012 5708	CARBON	1K	JA	1/4W	1
R311	401 024 7707	CARBON	100K	JA	1/6W	1
R312	401 024 7707	CARBON	100K	JA	1/6W	1
R313	401 012 5708	CARBON	1K	JA	1/4W	1
R314	401 012 5708	CARBON	1K	JA	1/4W	1
R315	401 027 0507	CARBON	470K	JA	1/6W	1
R316	401 027 0507	CARBON	470K	JA	1/6W	1
R317	401 024 7004	CARBON	1K	JA	1/6W	1
R318	401 024 7004	CARBON	1K	JA	1/6W	1
R319	401 024 7707	CARBON	100K	JA	1/6W	1
R320	401 024 7707	CARBON	100K	JA	1/6W	1
R335	401 016 2604	CARBON	220	JA	1/4W	1
R336	401 016 2604	CARBON	220	JA	1/4W	1
R341	401 025 8703	CARBON	220K	JA	1/6W	1
R342	401 025 8703	CARBON	220K	JA	1/6W	1
R343	401 027 5502	CARBON	6.8K	JA	1/6W	1
R344	401 027 5502	CARBON	6.8K	JA	1/6W	1
R345	401 023 2802	CARBON	8.2K	JA	1/4W	1
R346	401 027 8602	CARBON	8.2K	JA	1/6W	1
R349	401 020 0801	CARBON	470	JA	1/4W	1
R350	401 020 0801	CARBON	470	JA	1/4W	1

Ref. No.	Part No.	Description				Q'ty
R351	401 024 7004	CARBON	1K	JA	1/6W	1
R352	401 024 7004	CARBON	1K	JA	1/6W	1
R353	401 024 7707	CARBON	100K	JA	1/6W	1
R354	401 024 7707	CARBON	100K	JA	1/6W	1
R355	401 024 7707	CARBON	100K	JA	1/6W	1
R356	401 024 7707	CARBON	100K	JA	1/6W	1
R357	401 025 4200	CARBON	1.8K	JA	1/6W	1
R358	401 025 4200	CARBON	1.8K	JA	1/6W	1
R359	401 027 8602	CARBON	8.2K	JA	1/6W	1
R360	401 027 8602	CARBON	8.2K	JA	1/6W	1
R361	401 027 0309	CARBON	47K	JA	1/6W	1
R362	401 027 0309	CARBON	47K	JA	1/6W	1
R363	401 024 7004	CARBON	1K	JA	1/6W	1
R364	401 024 7004	CARBON	1K	JA	1/6W	1
R365	401 026 9600	CARBON	470	JA	1/6W	1
R366	401 026 9600	CARBON	470	JA	1/6W	1
R367	401 026 4605	CARBON	33K	JA	1/6W	1
R368	401 026 4605	CARBON	33K	JA	1/6W	1
R369	401 027 5908	CARBON	68K	JA	1/6W	1
R370	401 027 5908	CARBON	68K	JA	1/6W	1
R371	401 024 9701	CARBON	12K	JA	1/6W	1
R372	401 024 9701	CARBON	12K	JA	1/6W	1
R373	401 027 2105	CARBON	56	JA	1/6W	1
R374	401 027 2105	CARBON	56	JA	1/6W	1
R375	401 027 2105	CARBON	56	JA	1/6W	1
R376	401 027 2105	CARBON	56	JA	1/6W	1
R377	401 025 1605	CARBON	1.5K	JA	1/6W	1
R378	401 025 1605	CARBON	1.5K	JA	1/6W	1
R379	401 027 2600	CARBON	5.6K	JA	1/6W	1
R380	401 027 2600	CARBON	5.6K	JA	1/6W	1
R381	401 026 3905	CARBON	330	JA	1/6W	1
R382	401 026 3905	CARBON	330	JA	1/6W	1
R383	401 027 8305	CARBON	820	JA	1/6W	1
R384	401 027 8305	CARBON	820	JA	1/6W	1
R385	401 027 3003	CARBON	56K	JA	1/6W	1
R386	401 027 3003	CARBON	56K	JA	1/6W	1
R387	401 024 7004	CARBON	1K	JA	1/6W	1
R388	401 024 7004	CARBON	1K	JA	1/6W	1
R389	402 035 9902	FUSIBLE RES	82	J-	1/4W	1
R390	402 035 9902	FUSIBLE RES	82	J-	1/4W	1
R391	402 035 9902	FUSIBLE RES	82	J-	1/4W	1
R392	402 035 9902	FUSIBLE RES	82	J-	1/4W	1
R393	401 021 4105	CARBON	56K	JA	1/4W	1
R394	401 021 4105	CARBON	56K	JA	1/4W	1
R395	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R396	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R397	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R398	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R399	401 018 4903	CARBON	33K	JA	1/4W	1
R400	401 018 4903	CARBON	33K	JA	1/4W	1
R401	401 024 6700	CARBON	100	JA	1/6W	1
R402	401 024 6700	CARBON	100	JA	1/6W	1
R405	402 059 3108	FUSIBLE RES	1K	J-	1/4W	1
R406	402 059 3108	FUSIBLE RES	1K	J-	1/4W	1
R407	402 059 3108	FUSIBLE RES	1K	J-	1/4W	1
R408	402 059 3108	FUSIBLE RES	1K	J-	1/4W	1
R409	401 014 9100	CARBON	16K	JA	1/4W	1
R410	401 014 9100	CARBON	16K	JA	1/4W	1
R411	401 014 9100	CARBON	16K	JA	1/4W	1
R412	401 014 9100	CARBON	16K	JA	1/4W	1
R413	401 061 2604	OXIDE-MT	330	JB	1W	1
R414	401 061 2604	OXIDE-MT	330	JB	1W	1
R415	402 036 0205	FUSIBLE RES	2.2	J-	1/4W	1
R416	402 036 0205	FUSIBLE RES	2.2	J-	1/4W	1
R417	402 036 0205	FUSIBLE RES	2.2	J-	1/4W	1
R418	402 036 0205	FUSIBLE RES	2.2	J-	1/4W	1
R421	401 012 4503	CARBON	100	JA	1/4W	1
R422	401 012 4503	CARBON	100	JA	1/4W	1
R423	401 064 6203	OXIDE-MT	10	JB	2W	1
R424	401 064 6203	OXIDE-MT	10	JB	2W	1
R425	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R426	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R427	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R428	402 036 0106	FUSIBLE RES	47	J-	1/4W	1
R431	401 012 7009	CARBON	10K	JA	1/4W	1
R432	401 012 7009	CARBON	10K	JA	1/4W	1
R433	401 027 2303	CARBON	560	JA	1/6W	1
R434	401 027 2303	CARBON	560	JA	1/6W	1
R435	401 026 1307	CARBON	27K	JA	1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R436	401 026 1307	CARBON 27K JA 1/6W	1
R437	401 024 6700	CARBON 100 JA 1/6W	1
R438	401 024 6700	CARBON 100 JA 1/6W	1
R441	401 023 1706	CARBON 820 JA 1/4W	1
R442	401 023 1706	CARBON 820 JA 1/4W	1
R443	401 027 3003	CARBON 56K JA 1/6W	1
R444	401 027 3003	CARBON 56K JA 1/6W	1
R445	401 025 1902	CARBON 15K JA 1/6W	1
R446	401 026 9907	CARBON 4.7K JA 1/6W	1
R447	401 024 7004	CARBON 1K JA 1/6W	1
R448	401 024 7400	CARBON 10K JA 1/6W	1
R449	401 024 7707	CARBON 100K JA 1/6W	1
R450	401 024 7400	CARBON 10K JA 1/6W	1
R451	401 024 7400	CARBON 10K JA 1/6W	1
R452	401 025 8208	CARBON 22K JA 1/6W	1
R453	401 027 5502	CARBON 6.8K JA 1/6W	1
R461	401 026 1307	CARBON 27K JA 1/6W	1
R462	401 020 2003	CARBON 4.7K JA 1/4W	1
R463	401 055 9107	OXIDE-MT 33 JB 1/2W	1
R464	401 055 9107	OXIDE-MT 33 JB 1/2W	1
R465	401 014 4105	CARBON 1.5K JA 1/4W	1
R467	401 018 3807	CARBON 3.3K JA 1/4W	1
R468	401 060 7501	OXIDE-MT 270 JB 1W	1
R469	401 012 5708	CARBON 1K JA 1/4W	1
R470	402 041 8302	FUSIBLE RES 56 J- 1/4W	1
R471	401 018 3807	CARBON 3.3K JA 1/4W	1
R472	401 012 5708	CARBON 1K JA 1/4W	1
R473	401 012 7009	CARBON 10K JA 1/4W	1
R475	401 012 4503	CARBON 100 JA 1/4W	1
R481	401 027 0507	CARBON 470K JA 1/6W	1
R482	401 027 0507	CARBON 470K JA 1/6W	1
R483	401 024 7400	CARBON 10K JA 1/6W	1
R484	401 024 7400	CARBON 10K JA 1/6W	1
R485	401 026 3905	CARBON 330 JA 1/6W	1
R486	401 026 3905	CARBON 330 JA 1/6W	1
R487	401 024 7004	CARBON 1K JA 1/6W	1
R488	402 039 9908	OXIDE-MT 68 JB 1W	1
R489	402 039 9908	OXIDE-MT 68 JB 1W	1
ASSY,PCB,BIAS,LEFT			
73	620 202 7616	Assy,PCB,Bias,Left	1
Q329	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
ASSY,PCB,BIAS,RIGHT			
74	620 202 7623	Assy,PCB,Bias,Right	1
Q330	405 022 8209	TR 2SD1682-T	1
or	405 022 8001	TR 2SD1682-S	1
ASSY,PCB,LAMP			
75	620 202 7630	Assy,PCB,Lamp	1
	620 030 8083	Lamp	2
	620 198 0875	Spacer	2
SH106	620 202 9061	Socket,Holder,3P	1
ASSY,PCB-W,DAC			
76	620 202 7654	Assy,PCB-W,DAC	1
	620 205 2359	Shield,Cover	1
	620 202 8095	Jack,RCA PIN,1P,GR	1
	620 197 8421	Assy,Converter,TORX174	1
	620 197 8445	CAP,TORX174	1
	620 196 1591	Converter,O/E,Torx-174	1
	620 197 8421	Assy,Converter,TORX174	1
	620 197 8445	CAP,TORX174	1
	620 196 1591	Converter,O/E,Torx-174	1
	620 197 8438	Assy,Converter,TOTX174	1
	620 197 8445	CAP,TORX174	1
	620 196 1607	Converter,E/O,Totx-174	1
CN113	620 022 0231	Plug 7P	1
FB501	620 198 5016	Inductor,Ferrite BL03	1
FB502	620 198 5016	Inductor,Ferrite BL03	1
FB503	620 198 5016	Inductor,Ferrite BL03	1
FB504	620 198 5016	Inductor,Ferrite BL03	1
FB505	620 198 5016	Inductor,Ferrite BL03	1
FB506	620 198 5016	Inductor,Ferrite BL03	1
FB507	620 198 5016	Inductor,Ferrite BL03	1
FB508	620 198 5016	Inductor,Ferrite BL03	1
FB509	620 198 5016	Inductor,Ferrite BL03	1
FB510	620 198 5016	Inductor,Ferrite BL03	1

Ref. No.	Part No.	Description	Q'ty
FB511	620 198 5016	Inductor,Ferrite BL03	1
FB512	620 198 5016	Inductor,Ferrite BL03	1
L501	620 197 9558	Inductor 4.7UH K	1
L502	620 197 9558	Inductor 4.7UH K	1
L503	620 197 9558	Inductor 4.7UH K	1
L504	620 197 9558	Inductor 4.7UH K	1
L505	620 197 9558	Inductor 4.7UH K	1
L506	620 197 9558	Inductor 4.7UH K	1
L507	620 197 9558	Inductor 4.7UH K	1
L508	620 197 9558	Inductor 4.7UH K	1
L509	620 197 9558	Inductor 4.7UH K	1
L510	620 197 9558	Inductor 4.7UH K	1
PC114	620 206 9234	Wire, 5-100,P=2	1
SH114	620 202 9085	Socket,Holder,5P	1
IC501	409 052 1407	IC TC74HCU04P	1
IC502	409 203 1300	IC SN74LS08N	1
IC503	409 052 2206	IC TC74HC08P	1
IC504	409 199 2305	IC PD0052	1
IC505	409 165 5804	IC TC74HC04AP	1
IC506	409 181 9206	IC TC74HC164AP	1
IC507	409 181 9206	IC TC74HC164AP	1
IC508	409 203 1409	IC TC74HC123AP	1
IC509	409 051 9107	IC TC5081AP	1
IC510	409 181 9800	IC TC74HC163AP	1
IC511	409 181 9800	IC TC74HC163AP	1
IC512	409 194 9309	IC SAA7320	1
IC513	409 180 3304	IC NJM5532D	1
IC515	409 203 1201	IC NJM78M08FA	1
Q501	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q502	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q503	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q504	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q505	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q506	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q509	405 034 5104	TR 2SK246-BL	1
or	405 027 0505	TR 2SK246-GR	1
D501	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D502	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D503	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D504	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D505	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D506	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D507	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D508	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D509	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D510	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D511	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D512	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D513	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1
D514	407 049 6107	ZENER DIODE GZA11Z	1
C501	403 121 9509	CERAMIC 0.1U Z 50V	1
C502	403 038 2303	ELECT 100U M 6.3V	1
C503	403 001 1906	CERAMIC 0.01U M 16V	1
C504	403 038 2303	ELECT 100U M 6.3V	1
C505	403 001 1906	CERAMIC 0.01U M 16V	1
C506	403 038 2303	ELECT 100U M 6.3V	1
C507	403 001 1906	CERAMIC 0.01U M 16V	1
C508	403 038 2303	ELECT 100U M 6.3V	1
C509	403 001 1906	CERAMIC 0.01U M 16V	1
C510	403 001 1906	CERAMIC 0.01U M 16V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C511	403 001 1906	CERAMIC	0.01U	M	16V	1
C512	403 001 1906	CERAMIC	0.01U	M	16V	1
C513	403 001 1906	CERAMIC	0.01U	M	16V	1
C514	403 067 6709	MT-COMPO	0.22U	J	50V	1
C515	403 042 0302	ELECT	10U	M	16V	1
C516	403 001 1906	CERAMIC	0.01U	M	16V	1
C517	403 038 2303	ELECT	100U	M	6.3V	1
C518	403 017 9705	CERAMIC	22P	J	50V	1
C519	403 001 1906	CERAMIC	0.01U	M	16V	1
C520	403 038 2303	ELECT	100U	M	6.3V	1
C521	403 001 1906	CERAMIC	0.01U	M	16V	1
C522	403 001 1906	CERAMIC	0.01U	M	16V	1
C523	403 001 1906	CERAMIC	0.01U	M	16V	1
C524	403 042 0302	ELECT	10U	M	16V	1
C525	403 001 1906	CERAMIC	0.01U	M	16V	1
C526	403 001 1906	CERAMIC	0.01U	M	16V	1
C527	403 042 0302	ELECT	10U	M	16V	1
C528	403 121 9509	CERAMIC	0.1U	Z	50V	1
C529	403 121 9509	CERAMIC	0.1U	Z	50V	1
C530	403 038 7209	ELECT	220U	M	6.3V	1
C531	403 080 4904	POLYPRO	100P	J	100V	1
C532	403 080 4904	POLYPRO	100P	J	100V	1
C533	403 080 5208	POLYPRO	1000P	J	100V	1
C534	403 080 5208	POLYPRO	1000P	J	100V	1
C535	403 149 7105	POLYPRO	680P	J	100V	1
C536	403 149 7105	POLYPRO	680P	J	100V	1
C537	403 080 5208	POLYPRO	1000P	J	100V	1
C538	403 080 5208	POLYPRO	1000P	J	100V	1
C539	403 081 6105	POLYPRO	330P	J	100V	1
C540	403 081 6105	POLYPRO	330P	J	100V	1
C541	403 082 0300	POLYPRO	470P	J	100V	1
C542	403 082 0300	POLYPRO	470P	J	100V	1
C543	403 042 0302	ELECT	10U	M	16V	1
C544	403 042 0302	ELECT	10U	M	16V	1
C545	403 042 0302	ELECT	10U	M	16V	1
C546	403 042 0302	ELECT	10U	M	16V	1
C549	403 039 7802	ELECT	100U	M	10V	1
C550	403 044 0201	ELECT	47U	M	16V	1
C551	403 042 0302	ELECT	10U	M	16V	1
C554	403 121 9509	CERAMIC	0.1U	Z	50V	1
C555	403 121 9509	CERAMIC	0.1U	Z	50V	1
C556	403 039 4504	ELECT	470U	M	6.3V	1
C557	403 041 5704	ELECT	470U	M	10V	1
C558	404 037 1304	CERAMIC	1U	Z	50V	1
C559	403 001 1906	CERAMIC	0.01U	M	16V	1
C560	403 039 7802	ELECT	100U	M	10V	1
C561	403 074 6303	CERAMIC	560P	K	50V	1
C562	403 039 7802	ELECT	100U	M	10V	1
C563	403 001 1906	CERAMIC	0.01U	M	16V	1
C564	403 001 1906	CERAMIC	0.01U	M	16V	1
C568	403 017 7701	CERAMIC	22P	J	50V	1
C569	403 068 9402	CERAMIC	100P	K	50V	1
C570	403 071 6207	CERAMIC	220P	K	50V	1
C571	403 121 9509	CERAMIC	0.1U	Z	50V	1
C572	403 121 9509	CERAMIC	0.1U	Z	50V	1
C573	403 069 1207	CERAMIC	1000P	K	50V	1
C579	403 026 2209	CERAMIC	47P	J	50V	1
C580	403 001 2309	CERAMIC	0.01U	N	16V	1
C581	403 001 2309	CERAMIC	0.01U	N	16V	1
C582	403 001 2309	CERAMIC	0.01U	N	16V	1
R501	401 025 1308	CARBON	150	JA	1/6W	1
R502	401 025 1308	CARBON	150	JA	1/6W	1
R503	401 026 7408	CARBON	39K	JA	1/6W	1
R504	401 026 4308	CARBON	3.3K	JA	1/6W	1
R506	401 026 9600	CARBON	470	JA	1/6W	1
R507	401 020 0801	CARBON	470	JA	1/4W	1
R508	401 027 8602	CARBON	8.2K	JA	1/6W	1
R509	401 020 0801	CARBON	470	JA	1/4W	1
R510	401 026 9907	CARBON	4.7K	JA	1/6W	1
R511	401 020 0801	CARBON	470	JA	1/4W	1
R512	401 024 7707	CARBON	100K	JA	1/6W	1
R513	401 024 7707	CARBON	100K	JA	1/6W	1
R514	401 024 7707	CARBON	100K	JA	1/6W	1
R515	401 024 7707	CARBON	100K	JA	1/6W	1
R516	401 012 5708	CARBON	1K	JA	1/4W	1
R517	401 024 7707	CARBON	100K	JA	1/6W	1
R518	401 024 7004	CARBON	1K	JA	1/6W	1
R519	401 025 6204	CARBON	2K	JA	1/6W	1
R520	401 024 7004	CARBON	1K	JA	1/6W	1
R521	401 026 7002	CARBON	3.9K	JA	1/6W	1
R522	401 026 6401	CARBON	39	JA	1/6W	1
R523	401 026 9907	CARBON	4.7K	JA	1/6W	1
R524	401 024 7707	CARBON	100K	JA	1/6W	1
R525	401 024 7707	CARBON	100K	JA	1/6W	1
R526	401 012 5708	CARBON	1K	JA	1/4W	1
R527	401 024 7707	CARBON	100K	JA	1/6W	1
R528	401 024 7400	CARBON	10K	JA	1/6W	1
R529	401 025 7805	CARBON	2.2K	JA	1/6W	1
R530	401 024 7400	CARBON	10K	JA	1/6W	1
R531	401 012 7009	CARBON	10K	JA	1/4W	1
R532	401 024 7400	CARBON	10K	JA	1/6W	1
R533	401 012 5708	CARBON	1K	JA	1/4W	1
R534	401 024 7400	CARBON	10K	JA	1/6W	1
R535	401 024 7400	CARBON	10K	JA	1/6W	1
R536	401 027 0309	CARBON	47K	JA	1/6W	1
R541	401 027 7209	CARBON	7.5K	JA	1/6W	1
R542	401 027 7209	CARBON	7.5K	JA	1/6W	1
R543	401 027 2600	CARBON	5.6K	JA	1/6W	1
R544	401 027 2600	CARBON	5.6K	JA	1/6W	1
R545	401 027 2600	CARBON	5.6K	JA	1/6W	1
R546	401 027 2600	CARBON	5.6K	JA	1/6W	1
R547	401 026 0003	CARBON	24K	JA	1/6W	1
R548	401 026 0003	CARBON	24K	JA	1/6W	1
R549	401 024 8001	CARBON	1M	JA	1/6W	1
R550	401 024 8001	CARBON	1M	JA	1/6W	1
R551	401 025 8208	CARBON	22K	JA	1/6W	1
R552	401 025 8208	CARBON	22K	JA	1/6W	1
R553	401 024 7004	CARBON	1K	JA	1/6W	1
R554	401 024 7004	CARBON	1K	JA	1/6W	1
R555	401 024 7400	CARBON	10K	JA	1/6W	1
R556	401 024 7400	CARBON	10K	JA	1/6W	1
R557	401 025 8208	CARBON	22K	JA	1/6W	1
R558	401 025 8208	CARBON	22K	JA	1/6W	1
R559	401 027 0309	CARBON	47K	JA	1/6W	1
R560	401 027 0309	CARBON	47K	JA	1/6W	1
R561	401 024 7004	CARBON	1K	JA	1/6W	1
R562	401 024 7004	CARBON	1K	JA	1/6W	1
R563	401 012 7009	CARBON	10K	JA	1/4W	1
R564	401 024 7400	CARBON	10K	JA	1/6W	1
R565	401 026 9907	CARBON	4.7K	JA	1/6W	1
R566	401 026 9907	CARBON	4.7K	JA	1/6W	1
R571	401 024 7707	CARBON	100K	JA	1/6W	1
R572	401 026 4605	CARBON	33K	JA	1/6W	1
R573	401 026 4308	CARBON	3.3K	JA	1/6W	1
R574	401 026 4308	CARBON	3.3K	JA	1/6W	1
R575	401 012 4503	CARBON	100	JA	1/4W	1
R576	401 020 0801	CARBON	470	JA	1/4W	1
R577	401 024 7004	CARBON	1K	JA	1/6W	1
R578	401 024 6700	CARBON	100	JA	1/6W	1
R579	401 024 7707	CARBON	100K	JA	1/6W	1
ASSY,PCB-W,5V						
77	620 202 7678	Assy,PCB-W,5V				1
IC514	409 169 7804	IC NJM78M05FA				1
C552	403 121 9509	CERAMIC	0.1U	Z	50V	1
C553	403 121 9509	CERAMIC	0.1U	Z	50V	1

NOTES:

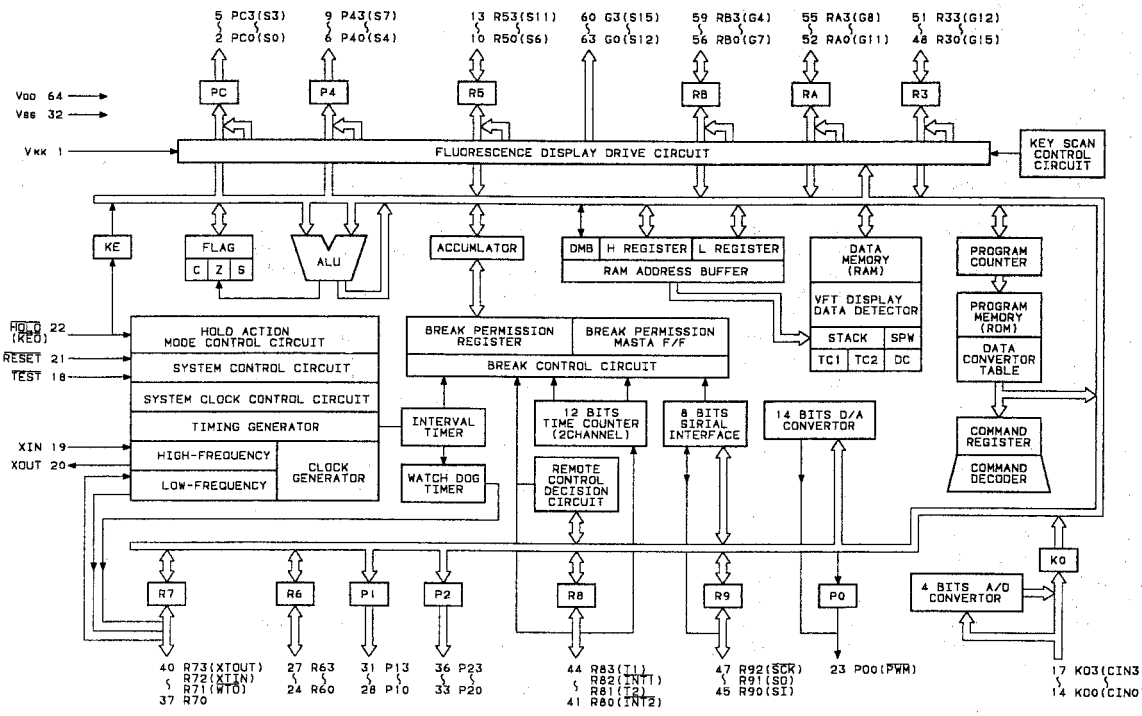
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

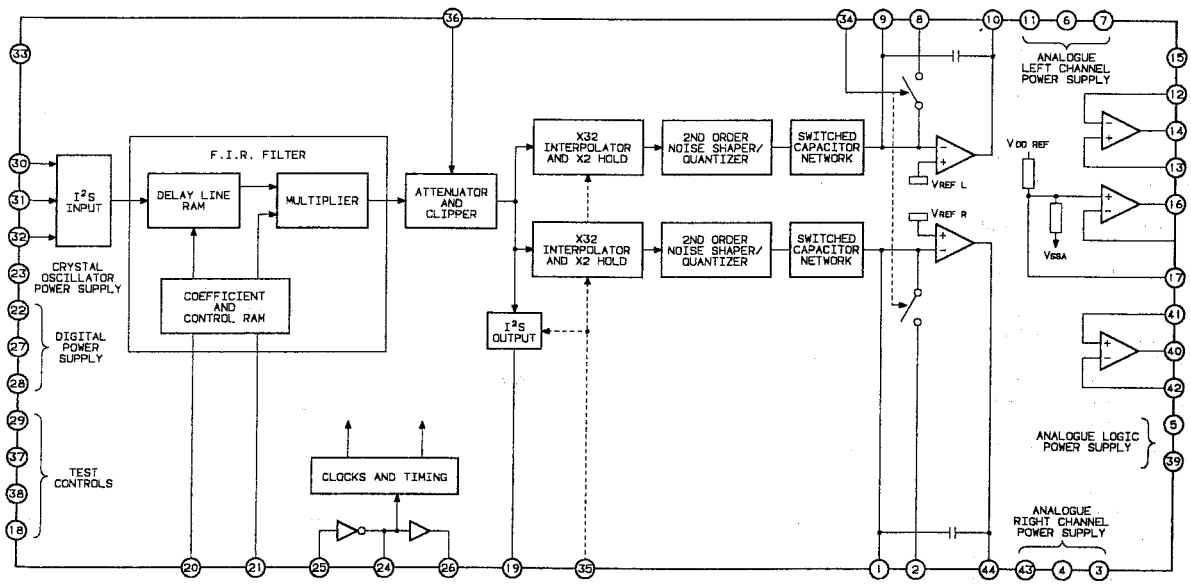
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

IC BLOCK DIAGRAM

TMP47P870N-CA-9060E BLOCK DIAGRAM

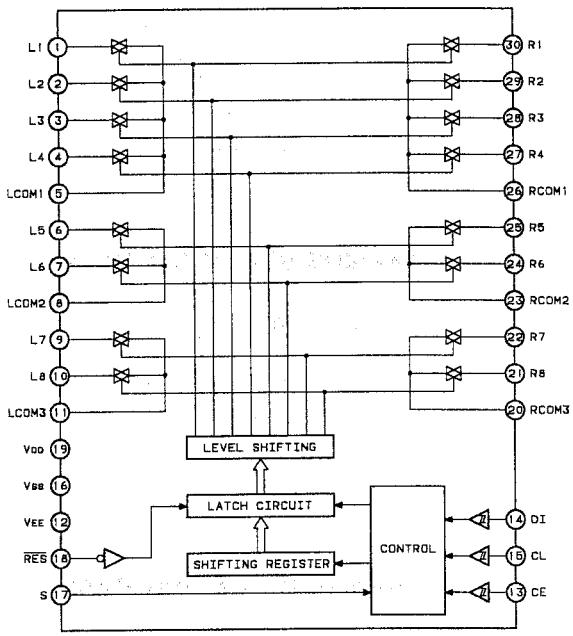


SAA7320 BLOCK DIAGRAM

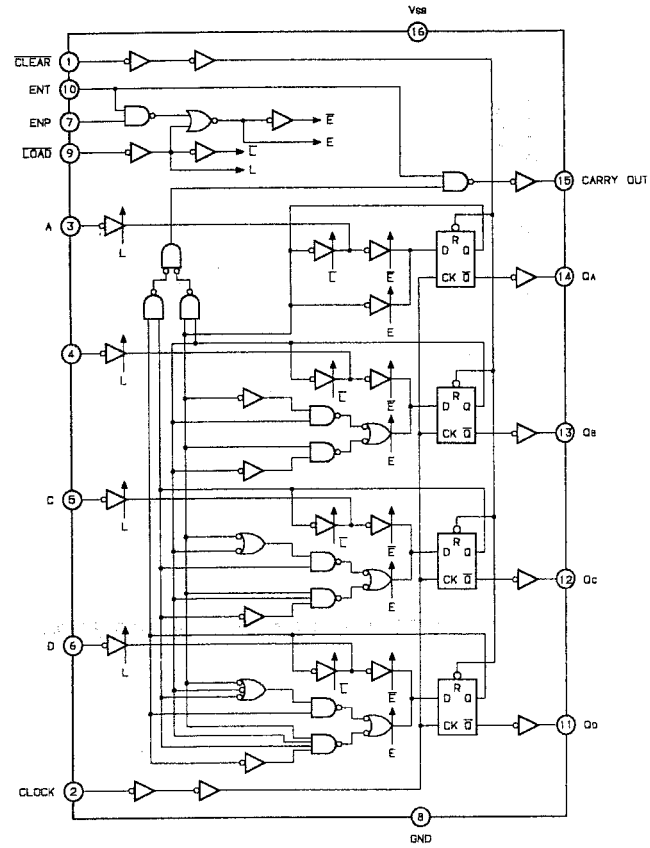


IC BLOCK DIAGRAM (Continued)

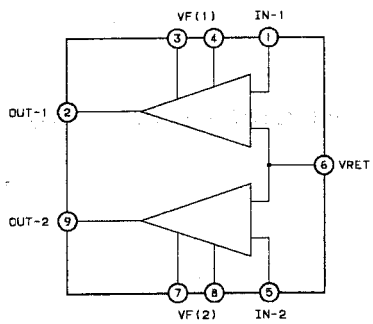
LC7821 BLOCK DIAGRAM



TC74HC163AP BLOCK DIAGRAM



LA2500 BLOCK DIAGRAM



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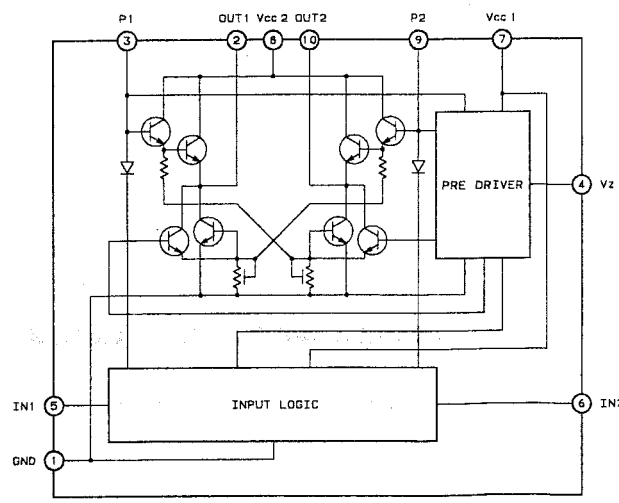
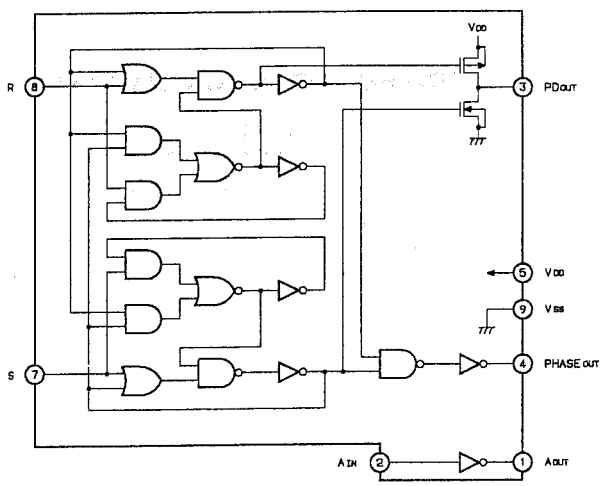
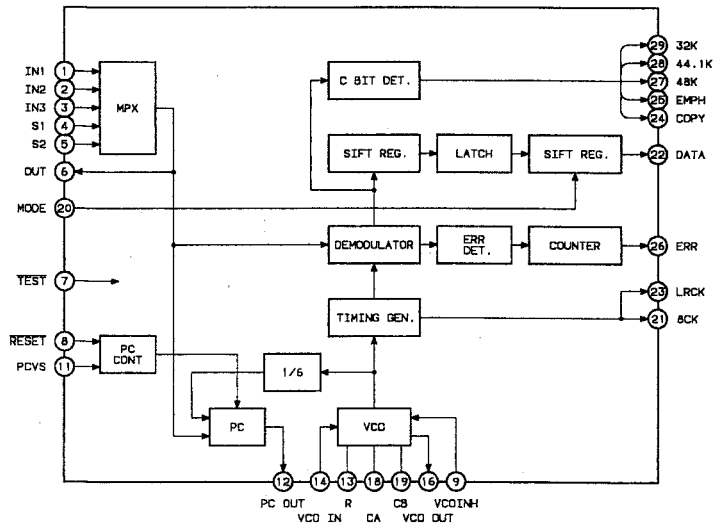


TC5081AP BLOCK DIAGRAM

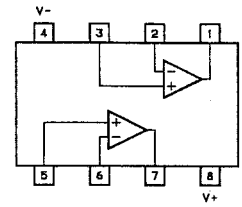


IC BLOCK DIAGRAM (Continued)

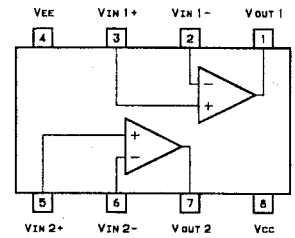
PD0052 BLOCK DIAGRAM



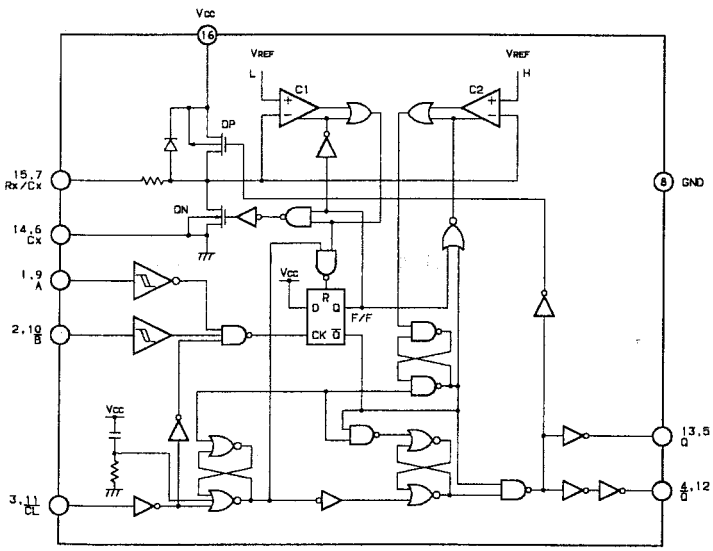
UPC4570C BLOCK DIAGRAM



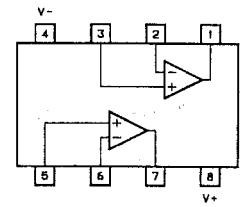
LA6458DS BLOCK DIAGRAM



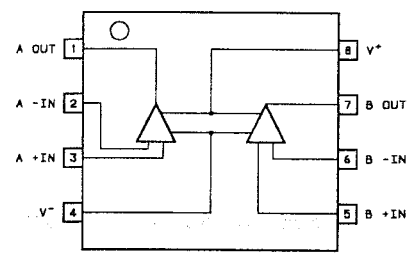
TC74HC123AP BLOCK DIAGRAM



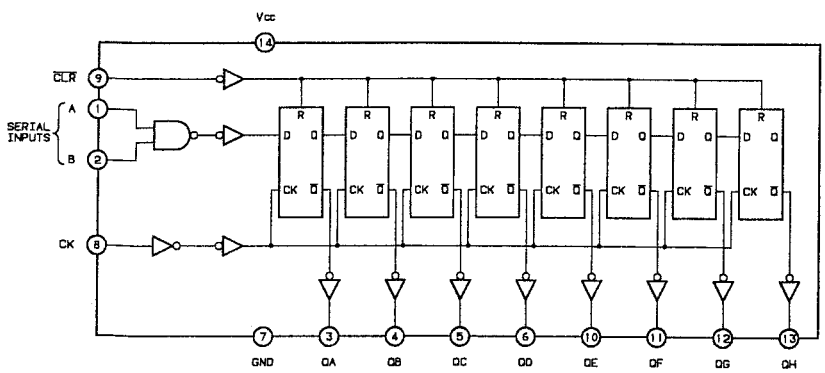
LA6462D BLOCK DIAGRAM



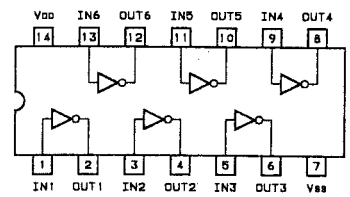
NJM5532D BLOCK DIAGRAM



TC74HC164AP BLOCK DIAGRAM

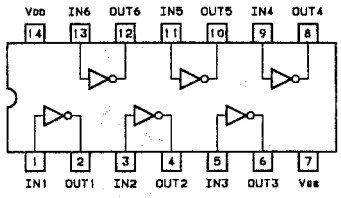


TC74HCU04P BLOCK DIAGRAM

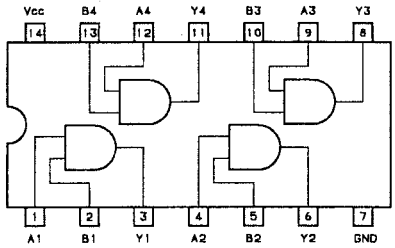


IC BLOCK DIAGRAM (Continued)

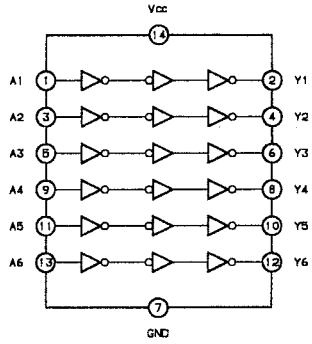
TC74HC04AP BLOCK DIAGRAM



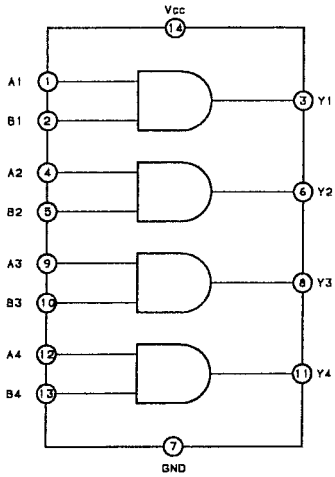
TC74HC08P BLOCK DIAGRAM



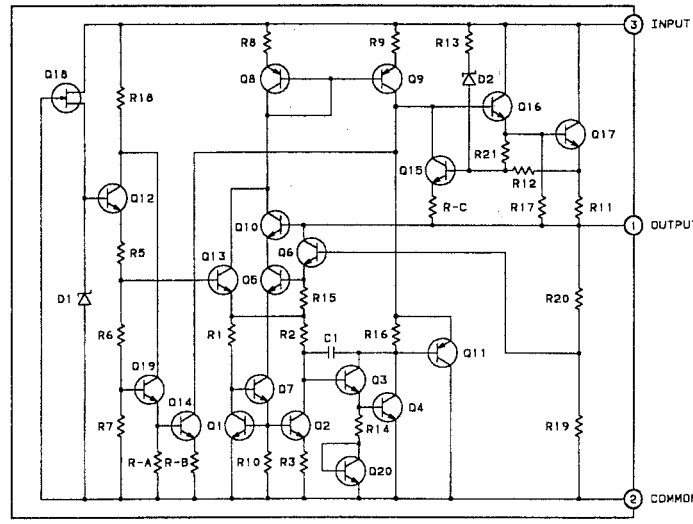
MC74HC04AN BLOCK DIAGRAM



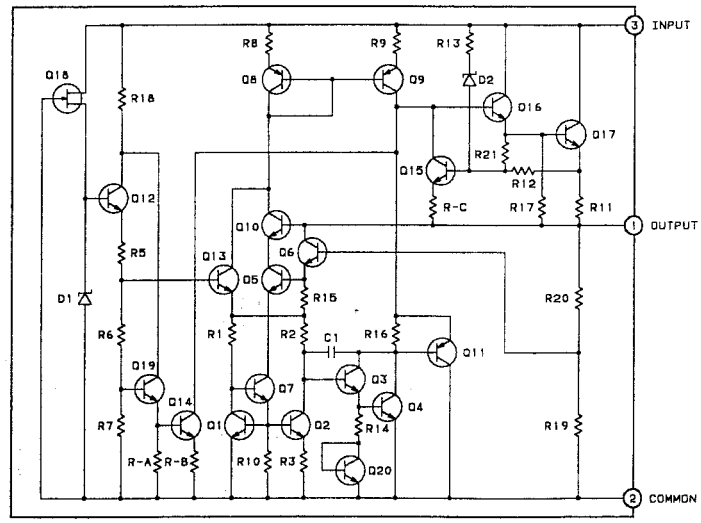
SN74LS08N BLOCK DIAGRAM



NJM78M08FA BLOCK DIAGRAM

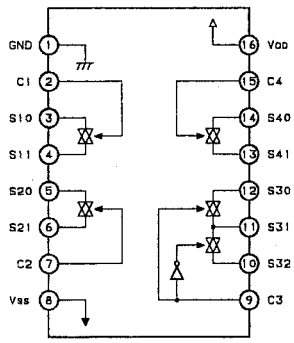


NJM78M05FA BLOCK DIAGRAM

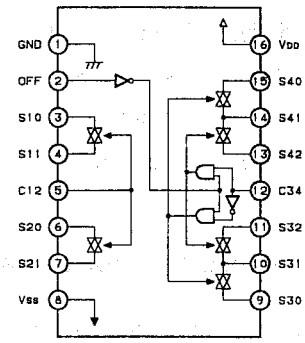


IC BLOCK DIAGRAM (Continued)

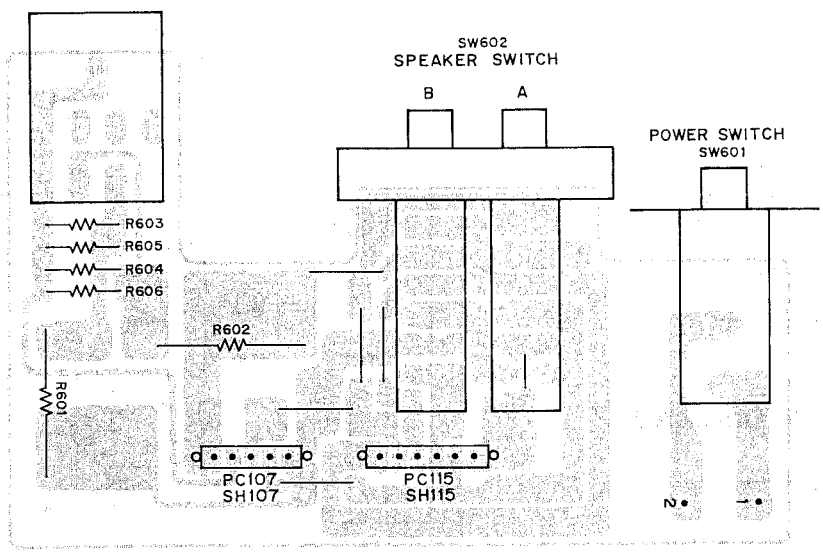
TC9214P BLOCK DIAGRAM



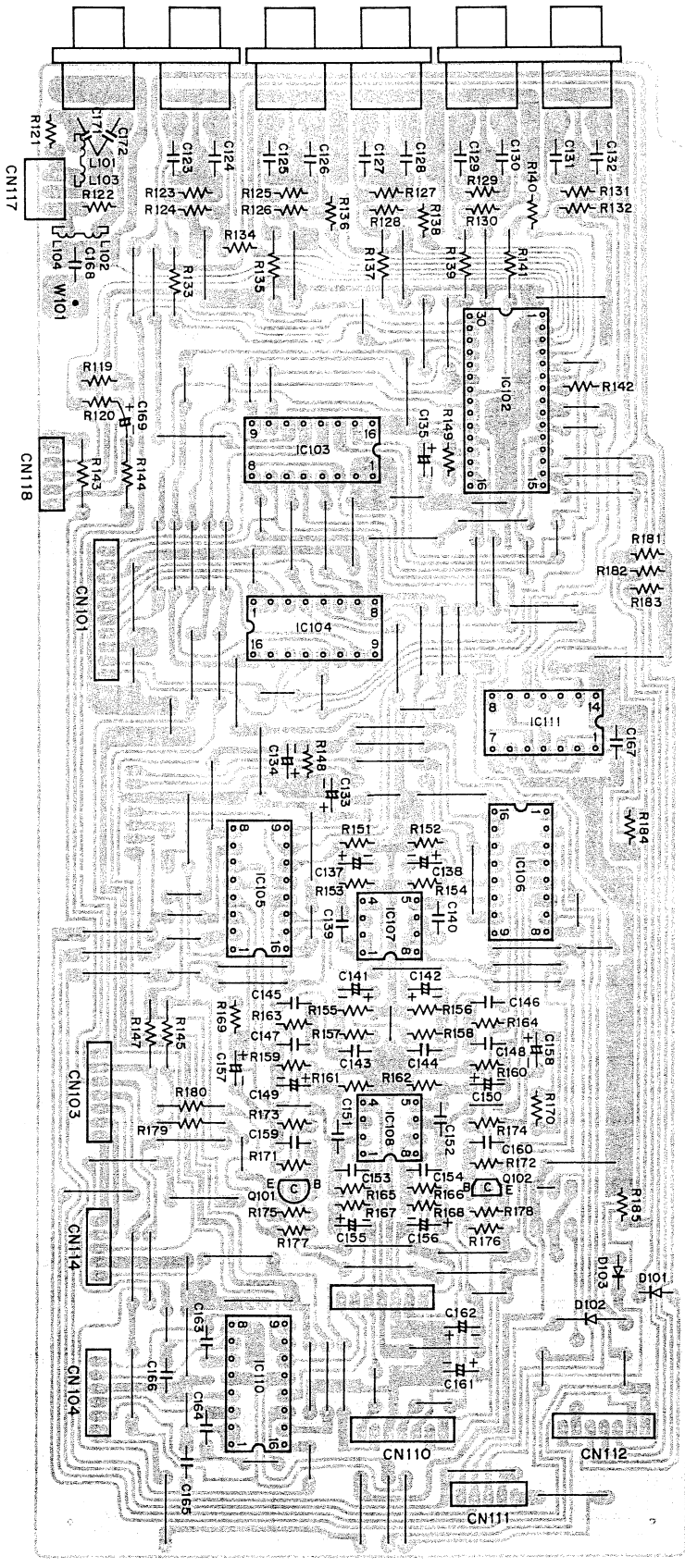
TC9215P BLOCK DIAGRAM



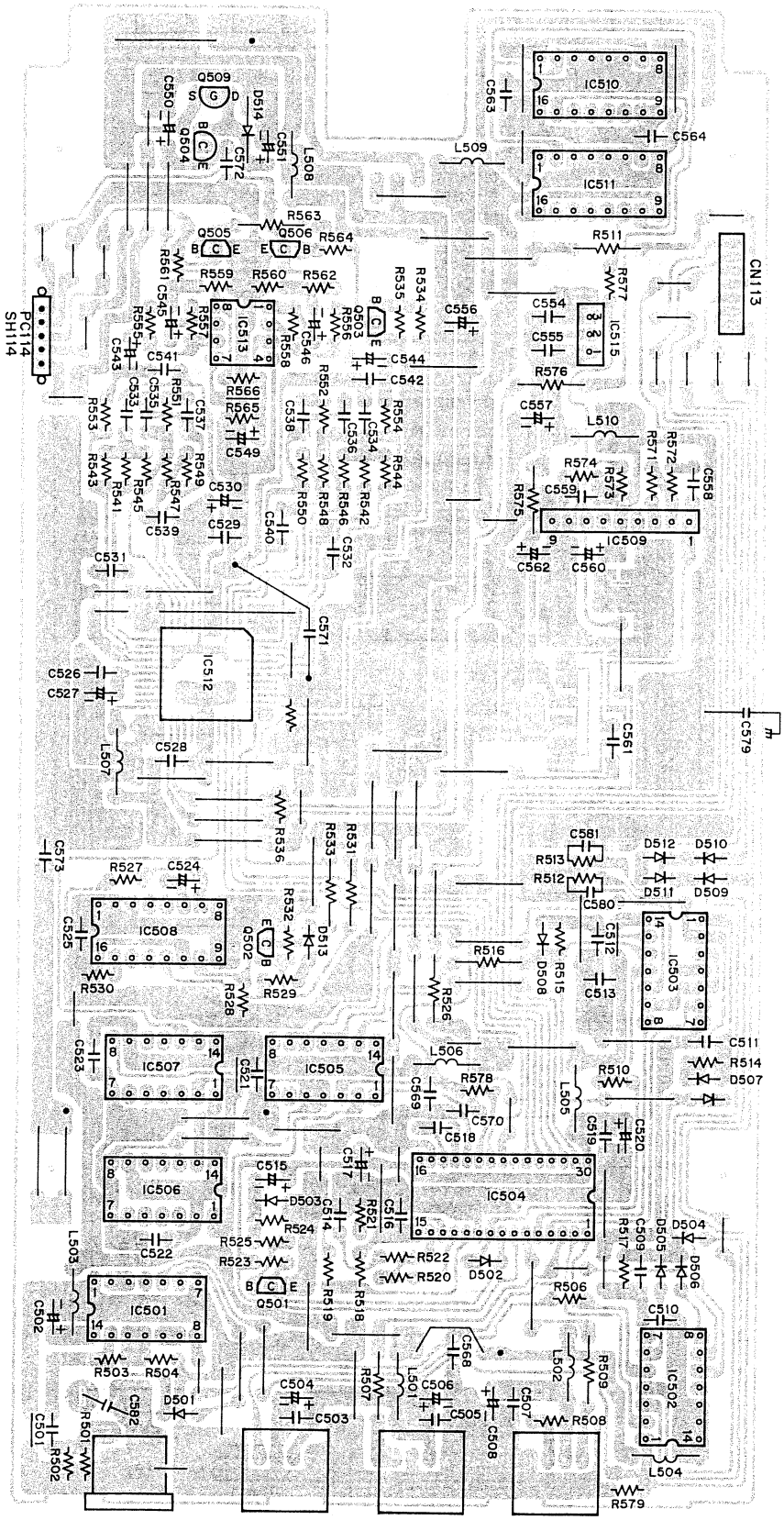
SPEAKER SWITCH P.C.BOARD
(BOTTOM VIEW)



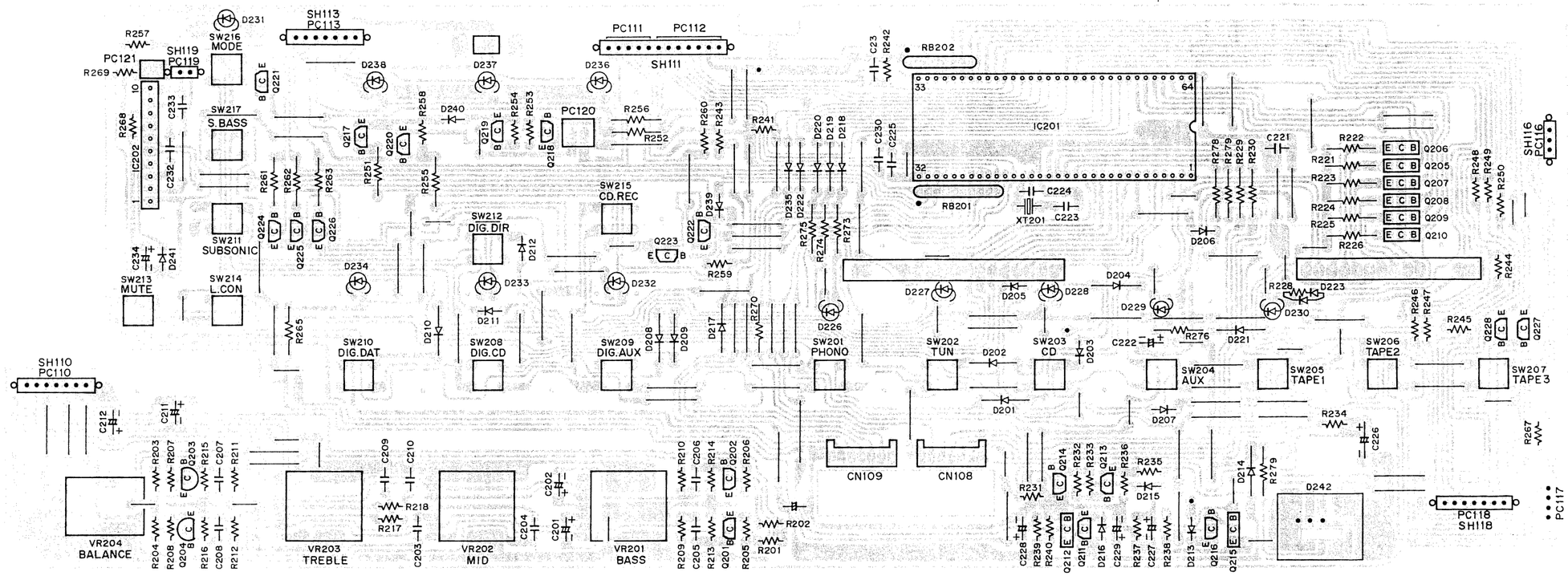
INPUT PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



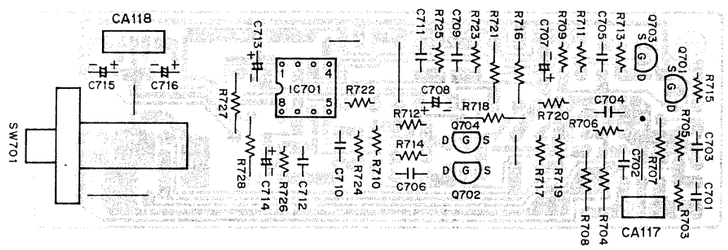
DAC PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



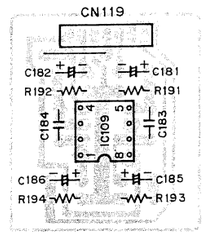
CONTROL PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



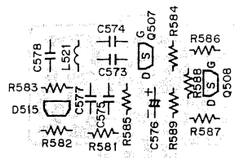
PHONO EQ P.C.BOARD
(BOTTOM VIEW)



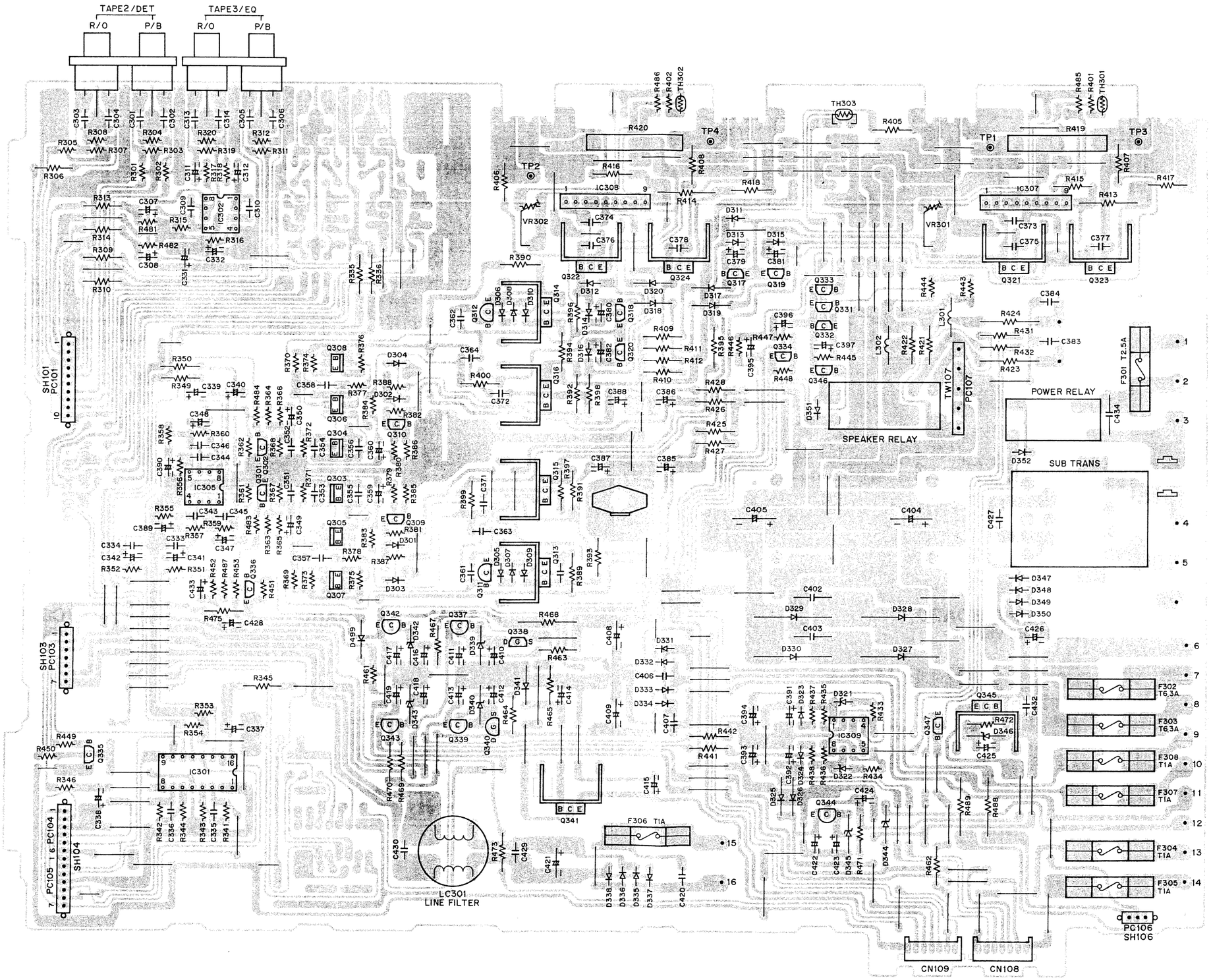
FLAT AMP P.C.BOARD
(BOTTOM VIEW)



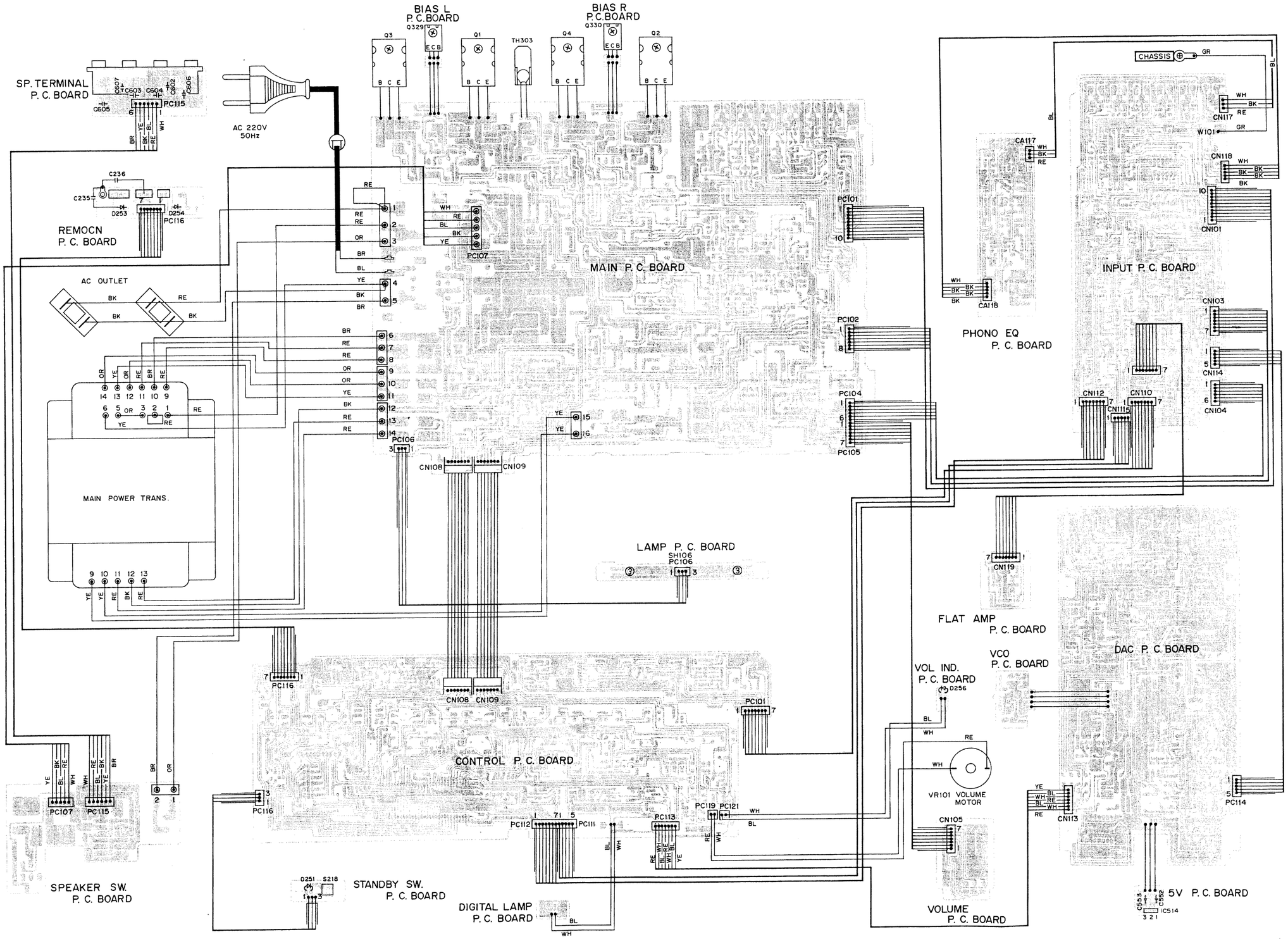
VCO P.C.BOARD
(BOTTOM VIEW)



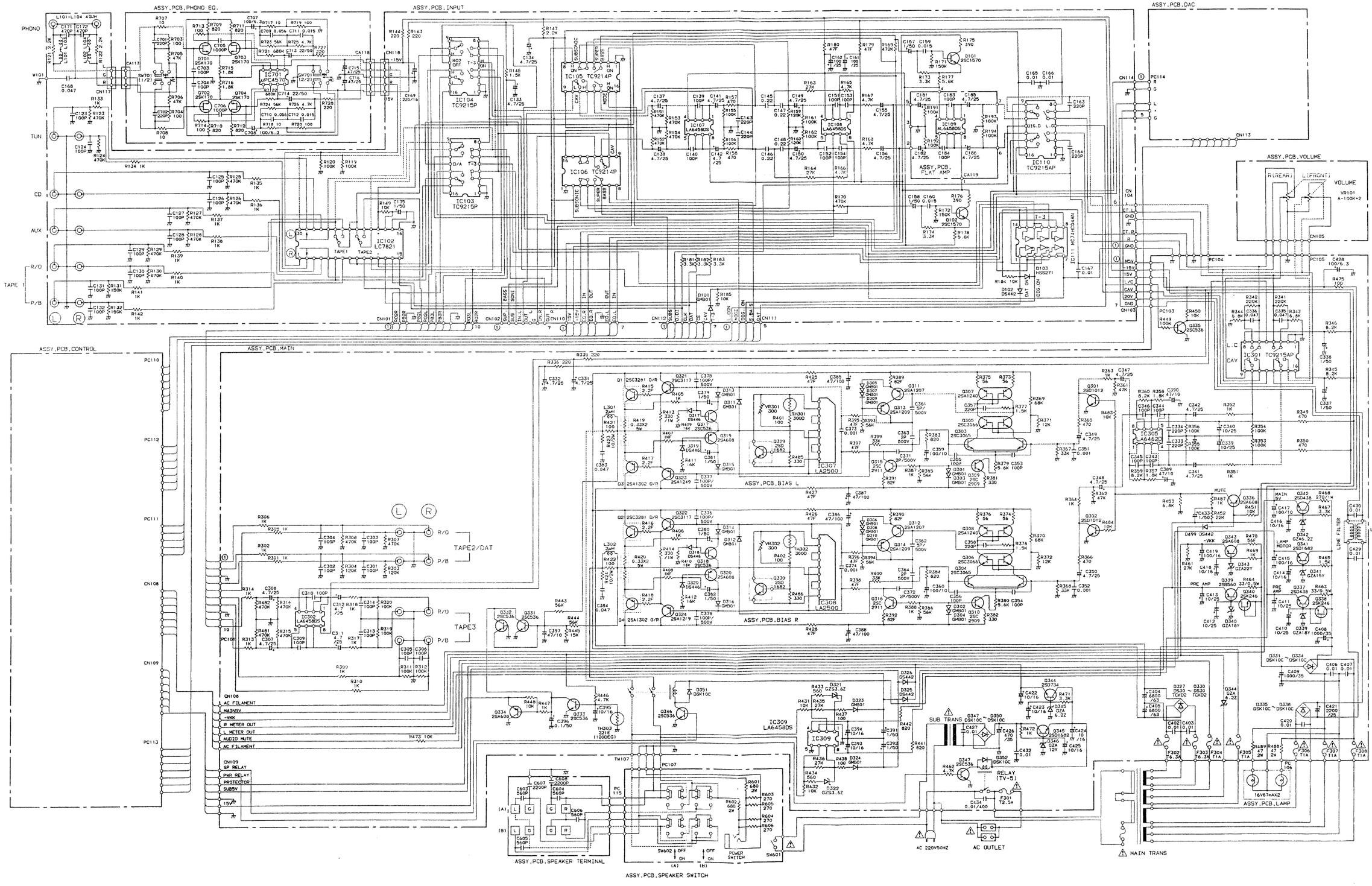
MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



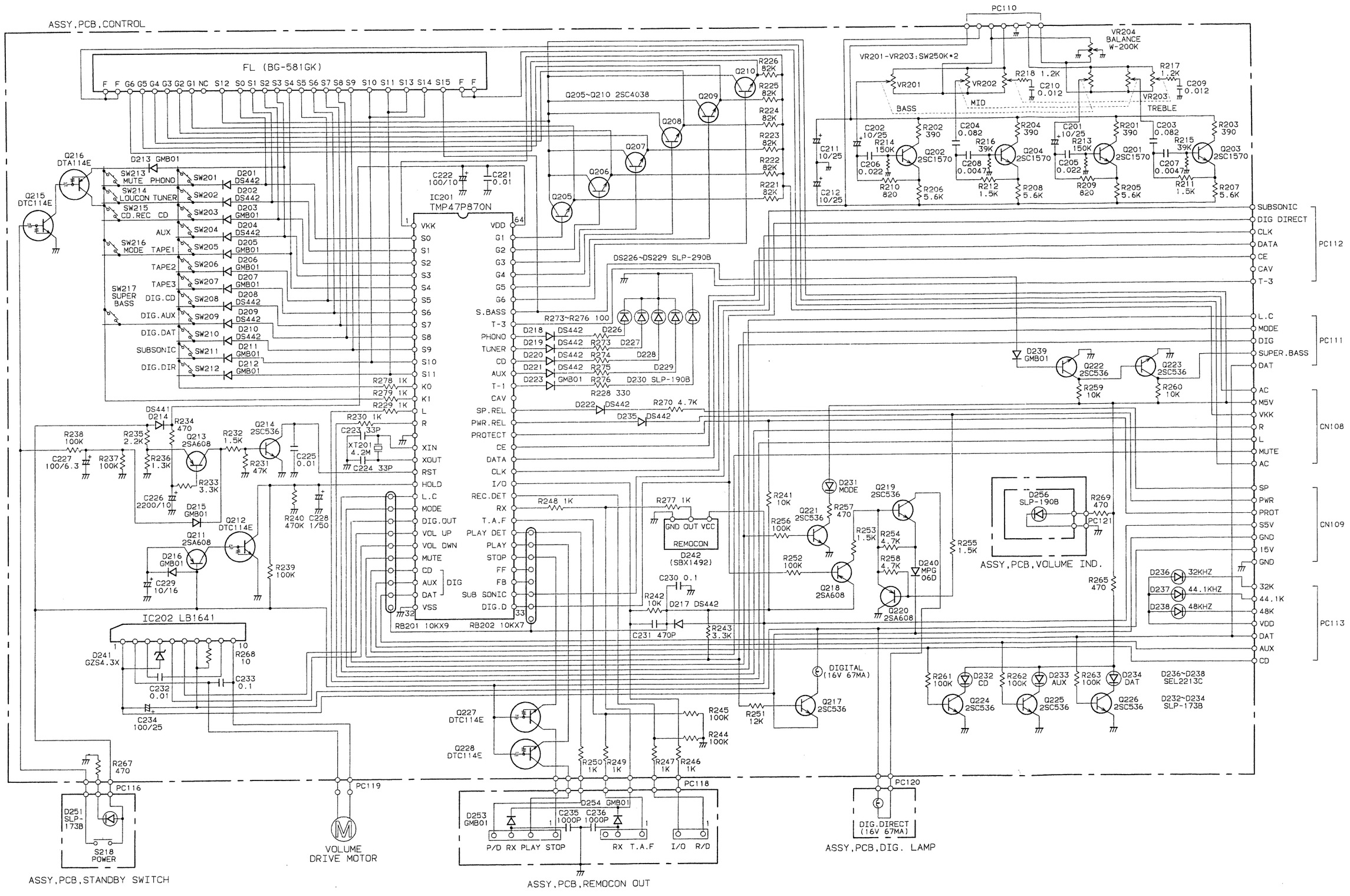
POINT TO POINT WIRING DIAGRAM



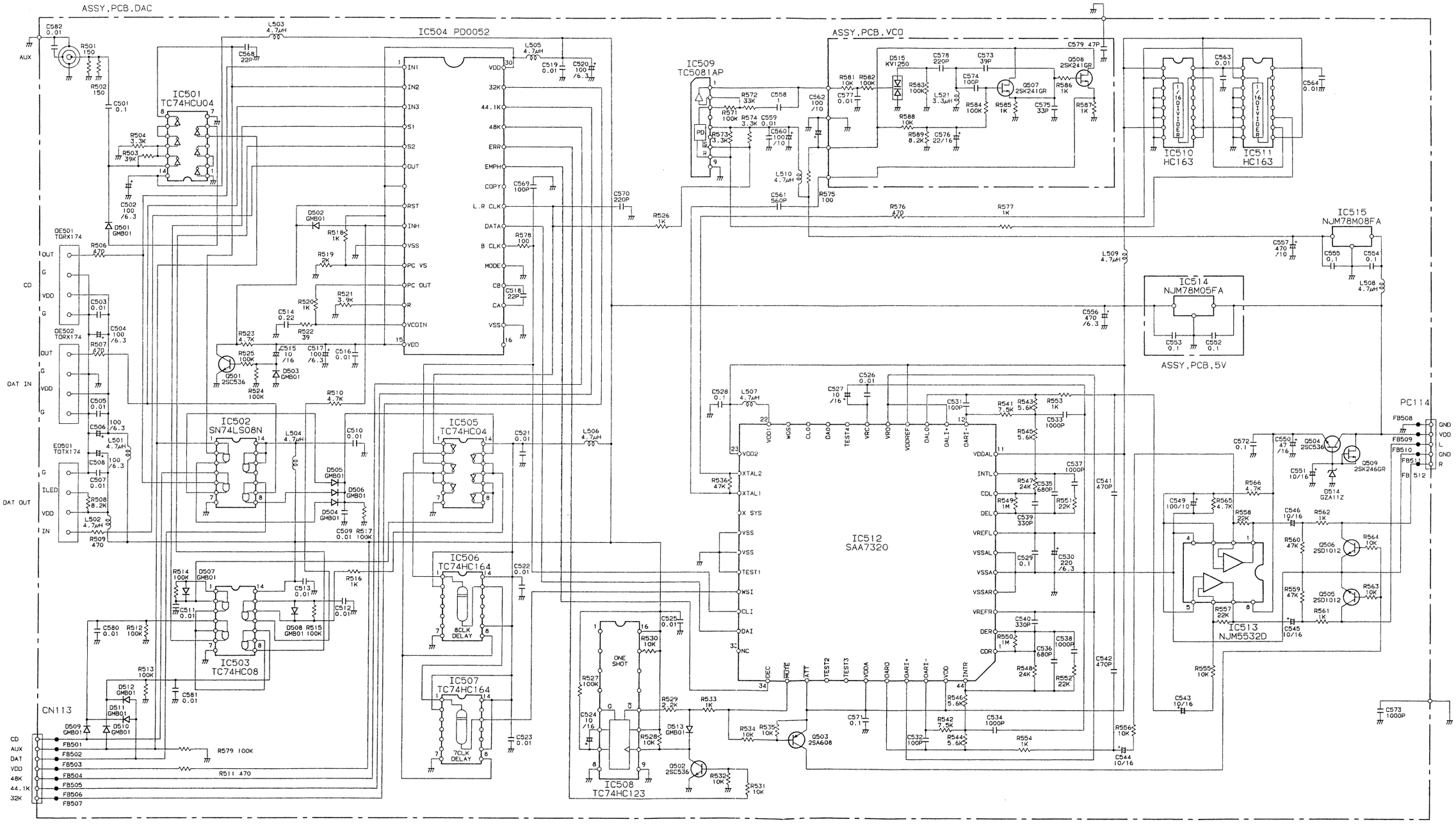
SCHEMATIC DIAGRAM (Main Unit Section)



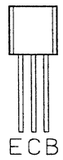
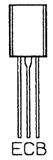
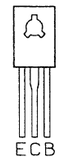
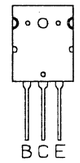
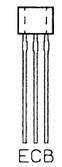
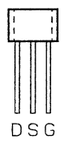
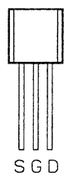
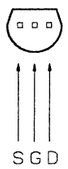
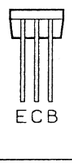
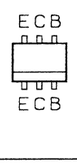
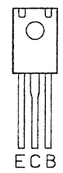
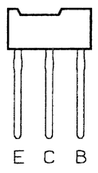
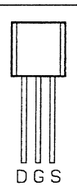
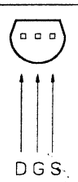
SCHEMATIC DIAGRAM (Control P.C.Board Section)



SCHEMATIC DIAGRAM (DAC P.C.Board Section)



IC & TRANSISTOR LEAD IDENTIFICATION

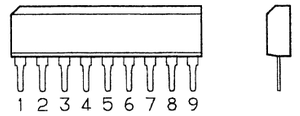
TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA1207 2SC1570 2SC2909 2SD734			2SB560 2SD438		
2SA1209 2SA1249 2SC2911 2SC3117			2SA1302 2SC3281		
DTA114 2SA608 2SC536 2SD1012			2SK241		
2SK246			2SA1240 2SC3065 2SC3066		
2SD1682			DTC114 2SC4038		
2SK170					

TERMINAL NAME

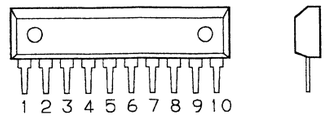
B → BASE
C → COLLECTOR
E → EMITTER
S → SOURCE
G → GATE
D → DRAIN

IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

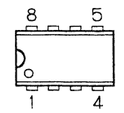
LA2500 FRONT/SIDE VIEWS
TC5081AP FRONT/SIDE VIEWS



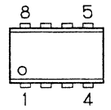
LB1641 FRONT/SIDE VIEWS



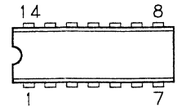
UPC4570C TOP VIEW



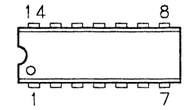
LA6458DS TOP VIEW
LA6462D TOP VIEW
NJM5532D TOP VIEW



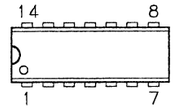
TC74HCU04P TOP VIEW
TC74HC04AP TOP VIEW
TC74HC08P TOP VIEW
TC74HC164AP TOP VIEW



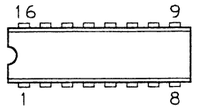
SN74LS08N TOP VIEW



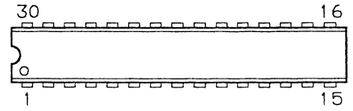
MC74HC04AN TOP VIEW



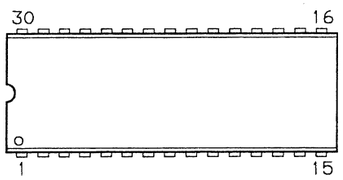
TC74HC123AP TOP VIEW
TC74HC163AP TOP VIEW
TC9214P TOP VIEW
TC9215P TOP VIEW



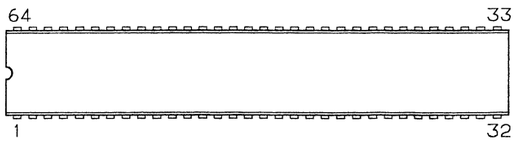
LC7821 TOP VIEW



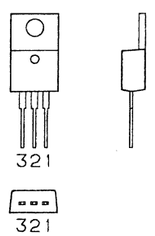
PD0052 TOP VIEW



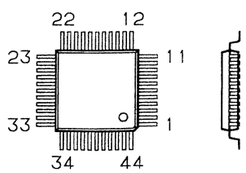
TMP47P870N-CA-9060E TOP VIEW



NJM78M05FA TOP/SIDE VIEWS



SAA7320 TOP/SIDE VIEWS



NJM78M08FA TOP/SIDE VIEWS

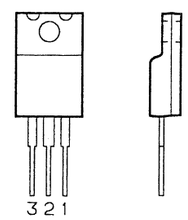


TABLE OF IC REFERENCE VOLTAGE

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC102	LC7821	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0.1V	0V	0V	0V	0V	14.9V	14.8V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	–	–	–	–	–	–	–	–	–	–
IC103	TC9215P	0V	0V	0V	0V	5.2V	0V	0V	−15.5V	0V	0V	0V	0V	0V	0V	0V	14.9V	–	–	–	–
IC104	TC9215P	0V	0V	0V	0V	0V	0V	0V	−15.5V	0V	0V	0V	5.2V	0V	0V	0V	14.9V	–	–	–	–
IC105	TC9214P	0V	0V	0V	0V	0V	0V	0V	−15.5V	0V	0V	0V	0V	0V	0V	0V	14.9V	–	–	–	–
IC106	TC9214P	0V	0V	0V	0V	0V	0V	0V	−15.5V	0V	0V	0V	0V	0V	0V	14.9V	14.9V	–	–	–	–
IC107	LA6458DS	0V	0V	0V	−17.4V	0V	0V	0V	17.3V	–	–	–	–	–	–	–	–	–	–	–	–
IC108	LA6458DS	0V	0V	0V	−17.4V	0V	0V	0V	17.3V	–	–	–	–	–	–	–	–	–	–	–	–
IC109	LA6458DS	0V	0V	0V	−17.4V	0V	0V	0V	17.3V	–	–	–	–	–	–	–	–	–	–	–	–
IC110	TC9215P	0V	0V	0V	0V	4.6V	0V	0V	−15.5V	0V	0V	0V	5.0V	0V	0V	0V	14.9V	–	–	–	–
IC111	MC74HC04AN	0.5V	5.2V	0.1V	5.2V	5.3V	0V	0V	0V	5.2V	0V	5.2V	5.2V	0V	5.2V	–	–	–	–	–	–
IC201	TMP47P870N	−21.9V	−5.2V	−17.1V	−9.2V	−21.5V	−8.8V	−17.2V	−13.1V	−13.2V	−21.1V	−21.1V	−12.3V	−16.7V	0V	0.1V	0.1V	0.1V	0V	2.2V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		4.7V	4.6V	0V	0V	0V	0V	0V	5.1V	0V	0V	0V	0V	0V	5.0V	4.9V	0V	5.2V	5.2V	4.9V	0V
		41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
		5.5V	0V	4.9V	0V	0V	0V	4.9V	4.6V	4.7V	−21.8V	−21.6V	−21.7V	−21.8V	3.8V	−21.3V	−21.8V	−21.8V	−18.1V	−18.1V	−18.1V
		61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
		0V	−18.1V	−18.1V	4.8V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC202	LB1641	0V	0.5V	0.7V	0.3V	0V	0V	14.7V	14.7V	0.7V	0.5V	–	–	–	–	–	–	–	–	–	–
IC301	TC9215P	0V	0V	0V	0V	0V	0V	0V	−16.6V	0V	0V	0V	0V	0V	0V	0V	16.4V	–	–	–	–
IC302	LA6458DS	0V	0V	0V	−17.6V	0V	0V	0V	17.4V	–	–	–	–	–	–	–	–	–	–	–	–
IC305	LA6462D	0V	0V	0V	−15.8V	0V	0V	0V	15.7V	–	–	–	–	–	–	–	–	–	–	–	–
IC307,308	LA2500	1.1V	0.4V	1.0V	1.0V	−1.1V	0V	−0.5V	−0.5V	−0.4V	–	–	–	–	–	–	–	–	–	–	–
IC309	LA6458DS	0V	0V	0V	−15.2V	0V	0V	0V	15.1V	–	–	–	–	–	–	–	–	–	–	–	–
IC501	TC74HCU04P	0V	0V	4.9V	0V	0V	5.0V	0V	0V	5.0V	5.0V	0V	0V	4.5V	5.0V	–	–	–	–	–	–
IC502	SN74LS08N	0V	0V	0.7V	3.8V	0.4V	0.7V	0.6V	0.7V	0.2V	0V	4.3V	4.9V	5.0V	4.9V	–	–	–	–	–	–
IC503	TC74HC08P	0V	0V	0V	3.3V	0V	0V	0V	0V	0V	0V	5.0V	5.0V	4.9V	5.0V	–	–	–	–	–	–
IC504	PD0052	0.4V	0V	0.2V	0V	0V	0V	5.0V	5.0V	5.0V	0V	3.2V	3.2V	1.7V	3.3V	5.0V	0V	0V	0V	0V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	4.9V	3.7V	3.7V	3.7V	5.0V	–	–	–	–	–	–	–	–	–	–
IC505	TC74HC04AP	0.1V	5.0V	0V	5.0V	5.0V	0V	0V	5.0V	0V	0V	5.0V	5.0V	0.5V	5.0V	–	–	–	–	–	–
IC506	TC74HC164AP	5.0V	5.0V	4.9V	5.0V	5.0V	5.0V	0V	5.0V	5.0V	5.0V	5.0V	5.0V	0V	5.0V	–	–	–	–	–	–
IC507	TC74HC164AP	0V	5.0V	0V	0V	0.5V	0V	0V	5.0V	5.0V	0V	0V	0V	0V	5.0V	–	–	–	–	–	–
IC508	TC74HC123AP	0V	0V	0V	5.0V	0V	0V	5.0V	0V	0V	0V	5.0V	4.9V	0V	0V	5.0V	5.0V	–	–	–	–
IC509	TC5081AP	0V	8.0V	8.1V	0V	8.1V	0V	1.9V	1.8V	0V	–	–	–	–	0V	5.0V	5.0V	–	–	–	–
IC510	TC74HC163AP	5.0V	2.0V	0V	0V	0V	0V	5.0V	0V	5.0V	5.0V	0V	5.0V	5.0V	0V	0V	5.0V	–	–	–	–
IC511	TC74HC163AP	5.0V	2.0V	0V	0V	0V	0V	5.0V	0V	4.9V	0V	0V	4.9V	0V	0V	0V	5.0V	–	–	–	–
IC512	SAA7320	2.5V	2.2V	2.5V	0V	0V	0V	2.5V	2.2V	2.5V	2.5V	5.0V	2.5V	2.5V	2.5V	5.0V	4.3V	2.4V	0V	0V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	5.0V	5.0V	2.0V	2.0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	0.9V	5.0V	4.9V	0V	5.0V	2.5V
		41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
		2.5V	2.5V	5.0V	2.5V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC513	NJM5532D	5.4V	5.4V	5.4V	0V	5.4V	5.4V	5.4V	10.9V	–	–	–	–	–	–	–	–	–	–	–	–
IC514	NJM78M05FA	5.0V	0V	13.1V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC515	NJM78M08FA	8.1V	0V	15.8V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC701	UPC4570C	−11.4V	−3.7V	15.3V	−14.2V	11.9V	11.9V	0V	15.3V	–	–	–	–	–	–	–	–	–	–	–	–

TABLE OF TRANSISTOR REFERENCE VOLTAGE

TRANSISTOR DC VOLTAGES														
Ref. No.	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**
Q101,102	2SC1570	−1.2V	16.2V	−1.8V	Q224	2SC536	0.6V	0.2V	0V	Q337	2SD438	18.9V	22.3V	18.3V
Q201	2SC1570	−1.7V	16.2V	−1.1V	Q225	2SC536	0V	0.8V	0V	Q339	2SB560	−19.1V	−21.7V	−18.5V
Q202	2SC1570	−1.1V	16.2V	−1.8V	Q226	2SC536	0V	0.7V	0V	Q341	2SD1682	15.4V	25.7V	14.8V
Q203	2SC1570	−0.2V	16.2V	−0.9V	Q227	DTC114	5.7V	0.7V	5.2V	Q342	2SD438	6.4V	16.0V	5.9V
Q204	2SC1570	−0.2V	16.2V	−0.9V	Q228	DTC114	5.6V	5.0V	5.2V	Q343	2SA608	−22.8V	−25.0V	−22.1V
Q205	2SC4038	−18.0V	5.8V	−18.1V	Q301,302	2SD1012	−4.2V	0V	0V	Q344	2SD734	6.3V	11.7V	5.6V
Q206	2SC4038	−18.1V	5.8V	−18.1V	Q303,304	2SC3065	0V	7.7V	−0.6V	Q345	2SD1682	12.3V	2.0V	11.7V
Q207	2SC4038	−18.1V	5.8V	−18.0V	Q305,306	2SC3066	8.2V	55.0V	7.6V	Q346	2SC536	0.7V	0V	0V
Q208	2SC4038	0.6V	5.8V	−18.1V	Q307,308	2SA1240	55.6V	54.7V	56.3V	Q347	2SC536	0.7V	0.1V	0V
Q209	2SC4038	−18.1V	5.8V	−18.0V	Q309,310	2SC2909	−55.1V	−9.3V	−55.8V	Q501	2SC536	0V	5.0V	0V
Q210	2SC4038	−18.1V	5.8V	−18.2V	Q311,312	2SA1207	55.2V	54.7V	55.8V	Q502	2SC536	0.6V	0V	0V
Q211	2SA608	5.6V	0V	5.5V	Q313,314	2SA1209	54.1V	1.4V	54.6V	Q503	2SA608	4.3V	5.0V	5.0V
Q212	DTC114	0V	4.5V	0V	Q315,316	2SC2911	−55.3V	−1.4V	−56.0V	Q504	2SC536	11.5V	15.8V	10.8V
Q213	2SA608	4.8V	0V	2.1V	Q317,318	2SC536	0V	0.9V	0V	Q505	2SD1012	0.6V	0V	0V
Q214	2SC536	0V	4.7V	0V	Q319,320	2SA608	0V	−0.9V	0V	Q506	2SD1012	0.6V	0V	0V
Q215	DTC114	0V	1.7V	0V	Q321,322	2SC3117	1.1V	56.5V	0.5V	Q1,2	2SC3281	0.5V	56.2V	0V
Q216	DTA114	1.7V	0V	1.8V	Q323,324	2SA1249	−1.1V	−56.1V	−0.5V	Q3,4	2SA1302	−0.5V	−56.3V	0V
Q217	2SC536	0V	14.7V	0V	Q329,330	2SD1682	0.1V	0.4V	−0.4V					
Q218	2SA608	4.9V	0V	5.0V	Q331	2SC536	0V	4.9V	0V			**G**	**D**	**S**
Q219	2SC536	0V	0V	0V	Q332	2SC536	0V	5.0V	0V	Q338	2SK246	18.9V	18.9V	25.8V
Q220	2SA608	3.0V	0V	0V	Q333	2SC536	0V	5.0V	0V	Q340	2SK246	−26.0V	−26.0V	−19.1V
Q221	2SC536	0V	4.4V	0V	Q334	2SA608	5.0V	0V	5.0V	Q509	2SK246	11.5V	11.5V	15.7V
Q222	2SC536	0V	0.6V	0V	Q335	2SC536	0.5V	0V	0V	Q701,702	2SK170	0V	11.8V	0.2V
Q223	2SC536	0.6V	0V	0V	Q336	2SA608	5.7V	−4.2V	5.9V	Q703,704	2SK170	−2.8V	−3.7V	−3.7V

Bezeichnung/Description
SERVICE MANUAL
Teile-Nr./Parts No.
WM570347
Menge/Quantity
1
Lagerort
35002
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